

Result No.	Query			DB	ID	Description
	Score	Match	Length			
1	274.5	28.6	3080	6	5233423-4	Patent No. 5233423
2	270.5	28.2	1055	2	US-08-659-251-5	Sequence 5, Appli
3	270.5	28.2	1055	3	US-09-256-490-5	Sequence 5, Appli
4	270.5	28.2	1055	3	PCT-US96-11445-5	Sequence 5, Appli
5	238.5	24.9	1150	3	US-09-238-303-9	Sequence 9, Appli
6	238.5	24.9	1150	4	US-09-946-239-9	Sequence 9, Appli
7	238	24.8	917	4	US-08-259-451-11	Sequence 11, Appl
8	237.5	24.8	314	1	US-08-589-446-6	Sequence 6, Appli
9	237.5	24.8	314	1	US-08-444-883-6	Sequence 6, Appli
10	237.5	24.8	314	2	US-08-389-459A-6	Sequence 6, Appli
11	237.5	24.8	314	3	US-08-987-867A-6	Sequence 6, Appli
12	237.5	24.8	562	3	US-09-117-217-14	Sequence 14, Appl
13	237.5	24.8	562	4	US-09-735-487-14	Sequence 14, Appl
14	237.5	24.8	913	2	US-07-743-357-22	Sequence 22, Appl
15	237.5	24.8	1005	2	US-07-743-357-1	Sequence 1, Appli
16	237.5	24.8	1014	4	US-09-319-588C-6	Sequence 6, Appli
17	237.5	24.8	1016	2	US-07-743-357-4	Sequence 4, Appli
18	237.5	24.8	1016	2	US-07-743-357-5	Sequence 5, Appli
19	237.5	24.8	1016	4	US-09-625-972-24	Sequence 24, Appl
20	236.5	24.7	560	4	US-09-752-652-1	Sequence 1, Appli
21	234.5	24.5	427	4	US-09-690-265-1	Sequence 1, Appli
22	234.5	24.5	1003	2	US-07-743-357-9	Sequence 9, Appli
23	234.5	24.5	1015	3	US-08-463-210-9	Sequence 9, Appli
24	234.5	24.5	1015	3	US-09-124-900-3	Sequence 3, Appli
25	234.5	24.5	1015	4	US-08-463-028-9	Sequence 9, Appli
26	234.5	24.5	1016	2	US-07-743-357-2	Sequence 2, Appli
27	233.5	24.3	1018	4	US-09-206-551-46	Sequence 46, Appl

RESULT 2
US-08-659-251-5
Sequence 5, Application US/08659251
Patent No. 5883081
GENERAL INFORMATION:
APPLICANT: Kraus, Guenter
APPLICANT: Wong-Staal, Flossie
APPLICANT: Talbott, Randy
APPLICANT: Poeschla, Eric
TITLE OF INVENTION: Isolation of No. 5883081el HIV-2 Proviruses
NUMBER OF SEQUENCES: 50
CORRESPONDENCE ADDRESS:
ADDRESSEE: Townsend and Crew LLP
STREET: Two Embarcadero Center, Eighth Floor
CITY: San Francisco
STATE: California
COUNTRY: USA
ZIP: 94111-3834

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COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
  APPLICATION NUMBER: US/08/659,251
  FILING DATE:
  CLASSIFICATION:
  PRIOR APPLICATION NUMBER: 514
  FILING DATE:
  APPLICATION NUMBER: US 60/001,441
  FILING DATE: 26-JUL-1995
ATTORNEY/AGENT INFORMATION:
  NAME: Garrett-Wackowski, Eugenia
  REGISTRATION NUMBER: 37,330
  REFERENCE/DOCKET NUMBER: 02307E-056410US
  TELECOMMUNICATION INFORMATION:
    TELEPHONE: (415) 576-0300
    TELEFAX: (415) 576-0300
  INFORMATION FOR SEQ ID NO: 5:
    SEQUENCE CHARACTERISTICS:
      LENGTH: 1055 amino acids
      TYPE: amino acid
      STRANDEDNESS:
      TOPOLOGY: linear
    MOLECULE TYPE: protein
    FEATURE:
      NAME/KEY: Protein
      LOCATION: 1..1055
    OTHER INFORMATION: /note= "pol protein encoded by HIV-2KR"
US-08-659-251-5

Query Match      28.2%; Score 270.5; DB 2; Length 1055;
Best Local Similarity 36.3%; Pred. No. 3.5e-24;
Matches 66; Conservative 32; Mismatches 75; Indels 9; Gaps 4;

QY 1 FTIPLAQDCCKFAFTIPAINNKEPATRFQWKVLPQGLNSPTICQTFVGRALQPVDRKF 60
D5 319 FSIPLHEDFRQYTAFTLPTVNNAPGKRYIKVLPQGWKGSFALFOHTMRQVLEPFRKAN 378
QY 61 SDCVIIHFDILCAATKDKLIDCYTFLPAEVANA-GLAIASDKIQTSPTFFHYLGMQIE 119
D5 379 PDVILVQMDILIASDRTDLEHRTVLQKELLGLGFSFDEKFKQDPPYKMWGYELW 438
QY 120 NRKIKPKQIEKRTKTLNDFQKLLGDIW---IRPTLGIPTYAMSNLFSILRGSDSLN 176
D5 439 PTKWKLQIQLPQKEVWTVNDIQKLVGLNWAQIYP--GIKT---KHLCLRLIRGKMTLT 493
QY 177 SK 178
D5 494 EE 495

RESULT 3
US-09-256-490-5
Sequence 5, Application US/09256490
Patent No. 6235881
GENERAL INFORMATION:
APPLICANT: Kraus, Guenter
APPLICANT: Wong-Staal, Flossie
APPLICANT: Talbott, Randy
APPLICANT: Poeschla, Eric
TITLE OF INVENTION: Isolation of No. 6235881el HIV-2 Proviruses
NUMBER OF SEQUENCES: 50
CORRESPONDENCE ADDRESS:
ADDRESS: Townsend and Townsend and Crew LLP
STREET: Two Embarcadero Center, Eighth Floor
CITY: San Francisco
STATE: California
COUNTRY: USA
ZIP: 94111-3834
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
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COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
  APPLICATION NUMBER: US/09/256,490
  FILING DATE:
  CLASSIFICATION:
  PRIOR APPLICATION NUMBER: 08/659,251
  FILING DATE:
  ATTORNEY/AGENT INFORMATION:
    NAME: Garrett-Wackowski, Eugenia
    REGISTRATION NUMBER: 37,330
    REFERENCE/DOCKET NUMBER: 02307E-056410US
    TELECOMMUNICATION INFORMATION:
      TELEPHONE: (415) 576-0200
      TELEFAX: (415) 576-0300
    INFORMATION FOR SEQ ID NO: 5:
      SEQUENCE CHARACTERISTICS:
        LENGTH: 1055 amino acids
        TYPE: amino acid
        STRANDEDNESS:
        TOPOLOGY: linear
      MOLECULE TYPE: protein
      FEATURE:
        NAME/KEY: Protein
        LOCATION: 1..1055
      OTHER INFORMATION: /note= "pol protein encoded by HIV-2KR"
US-09-256-490-5

Query Match      28.2%; Score 270.5; DB 3; Length 1055;
Best Local Similarity 36.3%; Pred. No. 3.5e-24;
Matches 66; Conservative 32; Mismatches 75; Indels 9; Gaps 4;

QY 1 FTIPLAQDCCKFAFTIPAINNKEPATRFQWKVLPQGLNSPTICQTFVGRALQPVDRKF 60
D5 319 FSIPLHEDFRQYTAFTLPTVNNAPGKRYIKVLPQGWKGSFALFOHTMRQVLEPFRKAN 378
QY 61 SDCVIIHFDILCAATKDKLIDCYTFLPAEVANA-GLAIASDKIQTSPTFFHYLGMQIE 119
D5 379 PDVILVQMDILIASDRTDLEHRTVLQKELLGLGFSFDEKFKQDPPYKMWGYELW 438
QY 120 NRKIKPKQIEKRTKTLNDFQKLLGDIW---IRPTLGIPTYAMSNLFSILRGSDSLN 176
D5 439 PTKWKLQIQLPQKEVWTVNDIQKLVGLNWAQIYP--GIKT---KHLCLRLIRGKMTLT 493
QY 177 SK 178
D5 494 EE 495

RESULT 4
PCT-US96-11445-5
Sequence 5, Application PC/TUS9611445
GENERAL INFORMATION:
APPLICANT: The Regents of the University of California
TITLE OF INVENTION: Isolation of Novel HIV-2 Proviruses
NUMBER OF SEQUENCES: 50
CORRESPONDENCE ADDRESS:
ADDRESS: Robbins, Berliner & Carson
STREET: 201 N. Figueroa Street, 5th Floor
CITY: Los Angeles
STATE: California
COUNTRY: USA
ZIP: 90012-2628
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
  APPLICATION NUMBER: PCT/US96/11445
  FILING DATE:
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/ CLASSIFICATION:
/ ATTORNEY/AGENT INFORMATION:
/ NAME: Berliner, Robert
/ REGISTRATION NUMBER: 20,121
/ REFERENCE/DOCKET NUMBER: 5555-399C1
/ TELECOMMUNICATION INFORMATION:
/ TELEPHONE: (213) 977-1001
/ TELEFAX: (213) 977-1003
/ INFORMATION FOR SEQ ID NO: 5:
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 1055 amino acids
/ TYPE: amino acid
/ STRANDEDNESS:
/ TOPOLOGY: linear
/ MOLECULE TYPE: protein
/ FEATURE:
/ NAME/KEY: Protein
/ LOCATION: 1..1055
/ OTHER INFORMATION: /note= "pol protein encoded by HIV-2KR"
FCT-US96-11445-5

Query Match 28.2%; Score 270.5; DB 5; Length 1055;
Best Local Similarity 36.3%; Pred. No. 3.5e-24;
Matches 66; Conservative 32; Mismatches 75; Indels 9; Gaps 4;

QY 1 FTIPLAEQDCCKFAFTIPAINNKEPATRFQWKVLPQGLMNSPTICQTFVGRALQPVDRKF 60
DB 319 FSIIPLHEDFRQVTAFTPLTVNNAEPKRYIYKVLPGWKSGPAIFQHTMRQVLEPRKAN 378

QY 61 SDCVIIHYFDDILCAAETKDKLIDCVTFPLPAEVANA--GLAIASDKIQSTPTPFHYLGM 116
DB 379 PDVILVQYMDIILASDRDLEHRTVLQKELLNGLGFSPTDEKFKQDPYKWMGYELW 438

QY 120 NRKIKPKQKIEIRKDTLKTNDFOKLLGDINWIRPTLGIPTYAMSNLFSILRGSDSLN 176
DB 439 PTKWKLQKIQLPQKQKWTVDYIQLVGLNWAQIYP--GKT---KHLCLRLIRGKMTLT 493

QY 177 SK 178
DB 494 EE 495

RESULT 5
US-09-238-303-9
; Sequence 9, Application US/09238303B
; Patent No. 6284253
; GENERAL INFORMATION:
; APPLICANT: Bari, Margaret C.
; TITLE OF INVENTION: No. 6284253el Feline Immunodeficiency Virus Nucleotide Sequence
; FILE REFERENCE: 18617.0059
; CURRENT APPLICATION NUMBER: US/09/238,303B
; EARLIER FILING DATE: 1999-01-28
; EARLIER APPLICATION NUMBER: US 60/072,927
; EARLIER FILING DATE: 1998-01-29
; NUMBER OF SEQ ID NOS: 17
; SEQ ID NO 9
; LENGTH: 1150
; TYPE: PRT
; ORGANISM: Unknown
; FEATURE:
; OTHER INFORMATION: protein encoded by the pol gene of a recombinant viral
; OTHER INFORMATION: clone constructed from the genomic DNA of a Pallas's cat feline
; OTHER INFORMATION: immunodeficiency virus
US-09-238-303-9

Query Match 24.9%; Score 238.5; DB 3; Length 1150;
Best Local Similarity 33.3%; Pred. No. 3.7e-20;
Matches 62; Conservative 30; Mismatches 85; Indels 9; Gaps 3;

QY 1 FTIPLAEQDCCKFAFTIPAINNKEPATRFQWKVLPQGLMNSPTICQTFVGRALQPVDRKF 60
DB 296 FTIPLDPDYAPYTAFTPLPKINNSGPGERFVWGLPQGVLSLIYQSTLNNILKPFREQH 355

QY 61 SDCVIIHYFDDILCAAETKDKLIDCVTFPLPAEVANA--GLAIASDKIQSTPTPFHYLGM 116
DB 356 PEIDLQYMDIYIGSDLGKKE---HKQIVEELRKLKLLMWGFETPEDKQLQEQPPYKWMGY 412

QY 117 QIENRKIKPKQKIEIRKDTLKTNDFOKLLGDINWIRPTLGIPTYAMSNLFSILRGSDSLN 176
DB 413 ELYPRKWTIQTKEIIPEEPTLNELOKLVGINWSSQI--IPGLRIKALTNMMKGNQALD 470

QY 177 SKRMLT 182
DB 471 SKRWT 476

RESULT 7
US-08-259-451-11
; Sequence 11, Application US/08259451
; Patent No. 6408841
; GENERAL INFORMATION:
; APPLICANT: Lee, Helen H.
; APPLICANT: Swanson, Priscilla A.
; APPLICANT: Idler, Kenneth B.
; APPLICANT: Rosenblatt, Joseph D.
; APPLICANT: Chen, Irvin S. Y.
; APPLICANT: Golde, David W.
; APPLICANT: Robertson, Eugene F.
; APPLICANT: Stephens, John E.
; APPLICANT: Chan, Emerson W.
; APPLICANT: Buytendorp, Mark H.
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QY 61 SDCVIIHYFDDILCAAETKDKLIDCVTFPLPAEVANA--GLAIASDKIQSTPTPFHYLGM 116
DB 356 PEIDLQYMDIYIGSDLGKKE---HKQIVEELRKLKLLMWGFETPEDKQLQEQPPYKWMGY 412

QY 117 QIENRKIKPKQKIEIRKDTLKTNDFOKLLGDINWIRPTLGIPTYAMSNLFSILRGSDSLN 176
DB 413 ELYPRKWTIQTKEIIPEEPTLNELOKLVGINWSSQI--IPGLRIKALTNMMKGNQALD 470

QY 177 SKRMLT 182
DB 471 SKRWT 476

RESULT 6
US-09-946-239-9
; Sequence 9, Application US/09946239
; Patent No. 6579527
; GENERAL INFORMATION:
; APPLICANT: Bari, Margaret C.
; TITLE OF INVENTION: No. 6579527el Feline Immunodeficiency Virus Nucleotide and
; TITLE OF INVENTION: Polypeptide Sequences
; FILE REFERENCE: 18617.0059
; CURRENT APPLICATION NUMBER: US/09/946,239
; CURRENT FILING DATE: 2001-09-04
; PRIOR APPLICATION NUMBER: US 09/238,303, US 60/072,927
; PRIOR FILING DATE: 1999-01-28, 1998-01-29
; NUMBER OF SEQ ID NOS: 17
; SEQ ID NO 9
; LENGTH: 1150
; TYPE: PRT
; ORGANISM: Unknown
; FEATURE:
; OTHER INFORMATION: protein encoded by the pol gene of a recombinant viral
; OTHER INFORMATION: clone constructed from the genomic DNA of a Pallas's cat feline
; OTHER INFORMATION: immunodeficiency virus
US-09-946-239-9

Query Match 24.9%; Score 238.5; DB 4; Length 1150;
Best Local Similarity 33.3%; Pred. No. 3.7e-20;
Matches 62; Conservative 30; Mismatches 85; Indels 9; Gaps 3;

QY 1 FTIPLAEQDCCKFAFTIPAINNKEPATRFQWKVLPQGLMNSPTICQTFVGRALQPVDRKF 60
DB 296 FTIPLDPDYAPYTAFTPLPKINNSGPGERFVWGLPQGVLSLIYQSTLNNILKPFREQH 355

QY 61 SDCVIIHYFDDILCAAETKDKLIDCVTFPLPAEVANA--GLAIASDKIQSTPTPFHYLGM 116
DB 356 PEIDLQYMDIYIGSDLGKKE---HKQIVEELRKLKLLMWGFETPEDKQLQEQPPYKWMGY 412

QY 117 QIENRKIKPKQKIEIRKDTLKTNDFOKLLGDINWIRPTLGIPTYAMSNLFSILRGSDSLN 176
DB 413 ELYPRKWTIQTKEIIPEEPTLNELOKLVGINWSSQI--IPGLRIKALTNMMKGNQALD 470

QY 177 SKRMLT 182
DB 471 SKRWT 476

RESULT 7
US-08-259-451-11
; Sequence 11, Application US/08259451
; Patent No. 6408841
; GENERAL INFORMATION:
; APPLICANT: Lee, Helen H.
; APPLICANT: Swanson, Priscilla A.
; APPLICANT: Idler, Kenneth B.
; APPLICANT: Rosenblatt, Joseph D.
; APPLICANT: Chen, Irvin S. Y.
; APPLICANT: Golde, David W.
; APPLICANT: Robertson, Eugene F.
; APPLICANT: Stephens, John E.
; APPLICANT: Chan, Emerson W.
; APPLICANT: Buytendorp, Mark H.
```

RESULT 9
US-08-444-882-6
Sequence 6, Application US/08444882
Patent No. 5622705
GENERAL INFORMATION:
APPLICANT: Morrow, Casey D.
TITLE OF INVENTION: ENCAPSIDATED
TITLE OF INVENTION: ACID AND METAL
TITLE OF INVENTION: USING SAME
NUMBER OF SEQUENCES: 8
CORRESPONDENCE ADDRESS:
ADDRESSES: LAHIVE & COCKFIELD
STREET: 60 STATE STREET, SUITE
CITY: BOSTON
STATE: MASSACHUSETTS
COUNTRY: USA
ZIP: 02109
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible


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; TELEFAX: (617) 742-4214
; INFORMATION FOR SEQ ID NO: 6:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 314 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-987-867A-6

Query Match      24.8%; Score 237.5; DB 3; Length 314;
Best Local Similarity 33.0%; Pred. No. 7e-21;
Matches 62; Conservative 32; Mismatches 81; Indels 13; Gaps 5;

QY 1 FTIPLASQDCEKF-AFTIPAINNKEPATRFQWKVLPQGLNSPTICQTFVGRALQPVDRK 59
Db 94 FSVPL-DEDFRKYTAFTIPINNETHGIRYQYNVLPQGWKSPAIQSSWTKILEPFRKQ 152
QY 60 FSDCYIIHYFDDILCAAET-----KDKLIDCYTFLPAEVANAGLAIASDKIQSTPFFHYL 114
Db 153 NPDIIVIQYMDLLVGSDELIGQHRTKIEB---LRQHLLRWGLTTPDKKHQKEPPLFW 208
QY 115 GMOIENKIKPKQIEIRKDTLKNDFQKLGDINIRPTLGIPTYAMSNLFSILRGDSD 174
Db 209 GYELHPDKWTVPQIVLPKDSWTVDIQKLVGLNWSAQI--YPGIKVRQLCKLLRGTKA 266

QY 175 LNSKRMLT 182
Db 267 LTEVIPLT 274

RESULT 12
US-09-117-217-14
; Sequence 14, Application US/09117217
; Patent No. 6221578
; GENERAL INFORMATION:
; APPLICANT: de BETHUNE, Marie-Pierre
; APPLICANT: HERTOGS, Kurt
; APPLICANT: PAUWELS, Rudi
; TITLE OF INVENTION: METHOD OF MANAGING THE CHEMOTHERAPY OF PATIENTS WHO ARE
; TITLE OF INVENTION: HIV POSITIVE BASED ON THE PHENOTYPIC DRUG SENSITIVITY
; FILE REFERENCE: 1377-125P
; CURRENT APPLICATION NUMBER: US/09/117,217
; CURRENT FILING DATE: 1998-07-24
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 14
; LENGTH: 562
; TYPE: PRT
; ORGANISM: HIV-HXB2
US-09-117-217-14

Query Match      24.8%; Score 237.5; DB 3; Length 562;
Best Local Similarity 33.0%; Pred. No. 1.7e-20;
Matches 62; Conservative 32; Mismatches 81; Indels 13; Gaps 5;

QY 1 FTIPLASQDCEKF-AFTIPAINNKEPATRFQWKVLPQGLNSPTICQTFVGRALQPVDRK 59
Db 116 FSVPL-DEDFRKYTAFTIPINNETHGIRYQYNVLPQGWKSPAIQSSWTKILEPFRKQ 174
QY 60 FSDCYIIHYFDDILCAAET-----KDKLIDCYTFLPAEVANAGLAIASDKIQSTPFFHYL 114
Db 175 NPDIIVIQYMDLLVGSDELIGQHRTKIEB---LRQHLLRWGLTTPDKKHQKEPPLFW 230
QY 115 GMOIENKIKPKQIEIRKDTLKNDFQKLGDINIRPTLGIPTYAMSNLFSILRGDSD 174
Db 231 GYELHPDKWTVPQIVLPKDSWTVDIQKLVGLNWSAQI--YPGIKVRQLCKLLRGTKA 288

QY 175 LNSKRMLT 182
Db 289 LTEVIPLT 296

RESULT 13
US-09-735-487-14
; Sequence 14, Application US/09735487
; Patent No. 6528251
; GENERAL INFORMATION:
; APPLICANT: de BETHUNE, Marie-Pierre
; APPLICANT: HERTOGS, Kurt
; APPLICANT: PAUWELS, Rudi
; TITLE OF INVENTION: METHOD OF MANAGING THE CHEMOTHERAPY OF PATIENTS WHO ARE
; TITLE OF INVENTION: HIV POSITIVE BASED ON THE PHENOTYPIC DRUG SENSITIVITY
; FILE REFERENCE: 1377-125P
; CURRENT APPLICATION NUMBER: US/09/735,487
; CURRENT FILING DATE: 2000-12-14
; PRIOR APPLICATION NUMBER: 09/117,217
; PRIOR FILING DATE: 1998-07-24
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 14
; LENGTH: 562
; TYPE: PRT
; ORGANISM: HIV-HXB2
US-09-735-487-14

Query Match      24.8%; Score 237.5; DB 4; Length 562;
Best Local Similarity 33.0%; Pred. No. 1.7e-20;
Matches 62; Conservative 32; Mismatches 81; Indels 13; Gaps 5;

QY 1 FTIPLASQDCEKF-AFTIPAINNKEPATRFQWKVLPQGLNSPTICQTFVGRALQPVDRK 59
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QY 60 FSDCYIIHYFDDILCAAET-----KDKLIDCYTFLPAEVANAGLAIASDKIQSTPFFHYL 114
Db 175 NPDIIVIQYMDLLVGSDELIGQHRTKIEB---LRQHLLRWGLTTPDKKHQKEPPLFW 230
QY 115 GMOIENKIKPKQIEIRKDTLKNDFQKLGDINIRPTLGIPTYAMSNLFSILRGDSD 174
Db 231 GYELHPDKWTVPQIVLPKDSWTVDIQKLVGLNWSAQI--YPGIKVRQLCKLLRGTKA 288

QY 175 LNSKRMLT 182
Db 289 LTEVIPLT 296

RESULT 14
US-07-743-357-22
; Sequence 22, Application US/07743357
; Patent No. 5858646
; GENERAL INFORMATION:
; APPLICANT: Kang, Yong C.
; TITLE OF INVENTION: Polypeptide having immunological
; TITLE OF INVENTION: activity for use as diagnostic reagent and/or vaccine
; NUMBER OF SEQUENCES: 22
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: KIRBY EADES GALE BAKER
; STREET: Box 3432, Station D
; CITY: Ottawa
; STATE: Ontario
; COUNTRY: Canada
; ZIP: K1M 1H8
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION NUMBER: US/07/743,357
; FILING DATE: 21-AUG-1991
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/CA90/00062
; FILING DATE: 23-FEB-1990
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; ATTORNEY/AGENT INFORMATION:
; NAME: Gale, Edwin J.
; REGISTRATION NUMBER: 28,584
; REFERENCE/DOCKET NUMBER: 30924-2
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (613) 237-6900
; TELEFAX: (613) 237-0045
; INFORMATION FOR SEQ ID NO: 22:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 913 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; HYPOTHEetical: NO
; FRAGMENT TYPE: internal
; ORIGINAL SOURCE:
; ORGANISM: Human immunodeficiency virus type 1
; STRAIN: HXB2
; US-07-743-357-22

Query Match          24.8%; Score 237.5; DB 2; Length 913;
Best Local Similarity 33.0%; Pred. No. 3.5e-20;
Matches      62; Conservative    32; Mismatches   81; Indels    13; Gaps     5;

QY      1 FTPLAQDCEKF-AFTIPAINNKKEATRFOMKVLPGQMINSPTICQTFVGRALQPVRDK 59
Db      180 FSVFL-DEDFRKYTAFTIPSINNETGIRYQNVLPQGKKSPALFQSSMTKILEPFRKQ 238
QY      60 FSDCYIIHYFDLILCAET-----KDCLIDCVTFLEPAEVANAGLAIASDKIQTSTPFYL 114
Db      239 NPDIVIQYMDLLVGSDELIGQHRTKIEE---LRQHLLRWGLTTPDKHQKEPPFLWM 294
QY      115 GMQLENRKIRPKQIEIKDTLTNLDFOKLGDINWIRPTLGIPYAMSNLFSLRGDS 174
Db      295 GYELHPDKWTVPQIVLPEKDSWTVDIOKLVGKIHWASOI--YPGIKVRLCKLRLGTKA 352
QY      175 LNSKRMLT 182
Db      353 LTEVIPLT 360

RESULT 15
US-07-743-357-1
; Sequence 1, Application US/07743357
; Patent No. 5858646
; GENERAL INFORMATION:
; APPLICANT: Kang, Yong C.
; TITLE OF INVENTION: Polypeptide having immunological
; TITLE OF INVENTION: activity for use as diagnostic reagent and/or vaccine
; NUMBER OF SEQUENCES: 22
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: KIRBY EADES GALE BAKER
; STREET: Box 3432, Station D
; CITY: Ottawa
; STATE: Ontario
; COUNTRY: Canada
; ZIP: KIM 1H8
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07743,357
; FILING DATE: 21-AUG-1991
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/CA90/00062
; FILING DATE: 23-FEB-1990
; ATTORNEY/AGENT INFORMATION:
; NAME: Gale, Edwin J.
; REGISTRATION NUMBER: 28,584

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GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: May 5, 2004, 15:53:16 ; Search time 38.093 Seconds
(without alignments)
1324.350 Million cell updates/sec

Title: US-09-490-700-41

Perfect score: 959

Sequence: 1 FTPLAQDCEKFAFTIPAI.....SNLPSILRGSDLSNKRMLT 182

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1138120 seqs, 277189581 residues

Total number of hits satisfying chosen parameters: 1138120

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications AA.*

- 1: /cgn2_5/prodata/2/pubaa/US07_PUBCOMB.pep.*
- 2: /cgn2_6/prodata/2/pubaa/PCT_NEW_PUB.pep.*
- 3: /cgn2_6/prodata/2/pubaa/US06_NEW_PUB.pep.*
- 4: /cgn2_6/prodata/2/pubaa/US06_PUBCOMB.pep.*
- 5: /cgn2_6/prodata/2/pubaa/US07_NEW_PUB.pep.*
- 6: /cgn2_6/prodata/2/pubaa/PCTUS_PUBCOMB.pep.*
- 7: /cgn2_6/prodata/2/pubaa/US08_NEW_PUB.pep.*
- 8: /cgn2_6/prodata/2/pubaa/US08_PUBCOMB.pep.*
- 9: /cgn2_6/prodata/2/pubaa/US09A_PUBCOMB.pep.*
- 10: /cgn2_6/prodata/2/pubaa/US09B_PUBCOMB.pep.*
- 11: /cgn2_6/prodata/2/pubaa/US09C_PUBCOMB.pep.*
- 12: /cgn2_6/prodata/2/pubaa/US09_NEW_PUB.pep.*
- 13: /cgn2_6/prodata/2/pubaa/US10A_PUBCOMB.pep.*
- 14: /cgn2_6/prodata/2/pubaa/US10B_PUBCOMB.pep.*
- 15: /cgn2_6/prodata/2/pubaa/US10C_PUBCOMB.pep.*
- 16: /cgn2_6/prodata/2/pubaa/US10_NEW_PUB.pep.*
- 17: /cgn2_6/prodata/2/pubaa/US60_NEW_PUB.pep.*
- 18: /cgn2_6/prodata/2/pubaa/US60_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	506.5	52.8	117	14	US-10-029-386-31336
2	486.5	50.7	137	9	US-09-864-761-37766
3	464	48.4	1814	9	US-09-920-552-103
4	461	48.1	631	9	US-09-920-552-6
5	461	48.1	647	9	US-09-920-552-10
6	461	48.1	734	9	US-09-920-552-16
7	394	41.1	572	9	US-09-960-428-6
8	394	41.1	858	9	US-09-960-428-7
9	362	37.7	111	15	US-10-104-047-2742
10	343	35.8	108	9	US-09-764-877-1706
11	343	35.8	108	15	US-10-242-515-1706
12	284	29.6	603	9	US-09-864-761-36676
13	249	26.0	578	8	US-08-808-031A-30
14	239	24.9	263	8	US-08-808-031A-4
15	238.5	24.9	1150	9	US-09-946-239-9

16	238	24.8	82	9	US-09-864-761-45143	Sequence 45143, A
17	237.5	24.8	314	9	US-09-756-551A-6	Sequence 6, Appli
18	237.5	24.8	560	12	US-10-399-920-2	Sequence 2, Appli
19	237.5	24.8	560	14	US-10-205-641-1	Sequence 1, Appli
20	237.5	24.8	562	9	US-09-735-487-14	Sequence 14, Appli
21	237.5	24.8	562	14	US-10-342-188-14	Sequence 14, Appli
22	237.5	24.8	562	14	US-10-102-622-10	Sequence 10, Appli
23	237.5	24.8	850	10	US-09-952-060-2	Sequence 2, Appli
24	237.5	24.8	850	12	US-10-168-217A-2	Sequence 2, Appli
25	237.5	24.8	875	10	US-09-952-060-6	Sequence 6, Appli
26	237.5	24.8	875	12	US-10-168-217A-6	Sequence 6, Appli
27	237.5	24.8	1003	14	US-10-283-847-17	Sequence 17, Appli
28	237.5	24.8	1014	14	US-10-301-661A-6	Sequence 6, Appli
29	237.5	24.8	1016	14	US-10-364-360-24	Sequence 24, Appli
30	236.5	24.7	561	14	US-10-102-622-12	Sequence 12, Appli
31	236.5	24.7	995	12	US-10-296-734-1470	Sequence 1470, Ap
32	235.5	24.6	995	12	US-10-296-734-2	Sequence 2, Appli
33	235	24.5	191	9	US-09-920-552-51	Sequence 51, Appli
34	234.5	24.5	546	8	US-08-808-031A-29	Sequence 29, Appli
35	233.5	24.3	999	15	US-10-346-000A-3	Sequence 3, Appli
36	233.5	24.3	1018	14	US-10-369-294-46	Sequence 46, Appli
37	232.5	24.2	561	14	US-10-059-271-87	Sequence 87, Appli
38	230.5	24.0	1445	14	US-10-168-843A-32	Sequence 32, Appli
39	225.5	23.5	263	8	US-08-808-031A-3	Sequence 3, Appli
40	221.5	23.1	850	10	US-09-952-060-4	Sequence 4, Appli
41	221.5	23.1	850	12	US-10-168-217A-4	Sequence 4, Appli
42	221.5	23.1	875	10	US-09-952-060-8	Sequence 8, Appli
43	221.5	23.1	875	12	US-10-168-217A-8	Sequence 8, Appli
44	221.5	23.1	979	14	US-10-271-181B-118	Sequence 118, App
45	221.5	23.1	1350	10	US-09-952-060-35	Sequence 35, Appli

ALIGNMENTS

RESULT 1

US-10-029-386-31336
; Sequence 31336, Application US/10029386
; Publication No. US20030194704A1
; GENERAL INFORMATION:
; APPLICANT: Penn, Sharron G.
; APPLICANT: Rank, David R.
; APPLICANT: Hanzel, David K.
; TITLE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USEFUL FOR C
; TITLE OF INVENTION: EXPRESSION ANALYSIS TWO
; FILE REFERENCE: AEMICA-X-2
; CURRENT APPLICATION NUMBER: US/10/029,386
; NUMBER OF SEQ ID NOS: 34288
; SOFTWARE: Anomax Sequence Listing Engine vers. 1.1
; SEQ ID NO 31336
; LENGTH: 117
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; OTHER INFORMATION: MAP TO AL023753.1
; OTHER INFORMATION: EXPRESSED IN BONE MARROW, SIGNAL = 0.45
; OTHER INFORMATION: EXPRESSED IN ADULT LIVER, SIGNAL = 0.39
; OTHER INFORMATION: EXPRESSED IN BRAIN, SIGNAL = 0.46
; OTHER INFORMATION: EXPRESSED IN FETAL LIVER, SIGNAL = 0.73
; OTHER INFORMATION: SWISSPROT HIT: P10266, EVALUATE 5.00e-52
US-10-029-386-31336

Query Match 52.8%; Score 506.5; DB 14; Length 117;
Best Local Similarity 84.6%; Pred. No. 6.4e-49;
Matches 99; Conservative 4; Mismatches 13; Indels 1; Gaps 1;
QY 52 ALQVRKFSDCYIIHYFDLLCAETKDLIDCYTLPAAEVANAGLIAADSKTQSTPF 111
DB 2 ALQVRKFSDCYIIHYFDLLCAETKDLIDCYTLPAAEVANAGLIAADSKTQSTPF 60
QY 112 HYLQWQENRKKPKQKIEIRKDKTLKLNDFKLLGDNWIRPTIGPTIYAMSLFSI 168


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; CURRENT FILING DATE: 2001-08-01
; PRIOR APPLICATION NUMBER: 09/280,329
; PRIOR FILING DATE: 1999-03-29
; PRIOR APPLICATION NUMBER: GB 9806649.1
; PRIOR FILING DATE: 1998-03-27
; PRIOR APPLICATION NUMBER: 60/115,288
; PRIOR FILING DATE: 1999-01-08
; NUMBER OF SEQ ID NOS: 127
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 6
; LENGTH: 631
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-920-552-6

Query Match      48.1%; Score 461; DB 9; Length 631;
Best Local Similarity 47.3%; Pred. No. 8.8e-43;
Matches 86; Conservative 37; Mismatches 59; Indels 0; Gaps 0;

QY 1 FTPLAEQDCEKFAFTIPAINNKEPATRFQWKVLPQGMNSPTTCQTFVGRALQPVDRKF 60
Db 104 FSLPLEHQDIQRFATVPFSINHQGPKRYEKKVLPQGMNTPAICQLYVDQAVEFVRQOC 163

QY 61 SDCVIHYFDDILCAETKDKLIDCYTFLPAEVANAGLAISDKIQTSTPFFHYLGMQIEN 120
Db 164 PKVQILHYMDDLITAESESHLMEAYKLLLLYLEKVGLOVAPEKIQGGEVVQYLGKVTs 223

QY 121 RKIKPKQKIEIRKDTLKTNDQKLGDNINWIRPTLGIPYAMSNLFSILRGSDSLNSKRM 180
Db 224 EKVTPLFEFAIDGLQTLNDFQKLCGNLWLRPYCKLTEDMMPSFNILEGDAQLDSPRR 283

QY 181 LT 182
Db 284 LT 285

RESULT 5
US-09-920-552-10
; Sequence 10, Application US/09920552
; Patent No. US20020094576A1
; GENERAL INFORMATION:
; APPLICANT: Griffiths, David J.
; APPLICANT: Weiss, Robin A.
; APPLICANT: Venables, Patrick
; TITLE OF INVENTION: Material and Methods Relating to a No. US20020094576A1 Retroviral
; FILE REFERENCE: Abbott Labs
; CURRENT APPLICATION NUMBER: US/09/920,552
; CURRENT FILING DATE: 2001-08-01
; PRIOR APPLICATION NUMBER: 09/280,329
; PRIOR FILING DATE: 1999-03-29
; PRIOR APPLICATION NUMBER: GB 9806649.1
; PRIOR FILING DATE: 1998-03-27
; PRIOR APPLICATION NUMBER: 60/115,288
; PRIOR FILING DATE: 1999-01-08
; NUMBER OF SEQ ID NOS: 127
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 10
; LENGTH: 647
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-920-552-10

Query Match      48.1%; Score 461; DB 9; Length 647;
Best Local Similarity 47.3%; Pred. No. 9.1e-43;
Matches 86; Conservative 37; Mismatches 59; Indels 0; Gaps 0;

QY 1 FTPLAEQDCEKFAFTIPAINNKEPATRFQWKVLPQGMNSPTTCQTFVGRALQPVDRKF 60
Db 120 FSLPLEHQDIQRFATVPFSINHQGPKRYEKKVLPQGMNTPAICQLYVDQAVEFVRQOC 179

QY 61 SDCVIHYFDDILCAETKDKLIDCYTFLPAEVANAGLAISDKIQTSTPFFHYLGMQIEN 120
Db 180 PKVQILHYMDDLITAESESHLMEAYKLLLLYLEKVGLOVAPEKIQGGEVVQYLGKVTs 239
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QY 121 RKIKPKQKIEIRKDTLKTNDQKLGDNINWIRPTLGIPYAMSNLFSILRGSDSLNSKRM 180
Db 240 EKVTPLFEFAIDGLQTLNDFQKLCGNLWLRPYCKLTEDMMPSFNILEGDAQLDSPRR 299

QY 181 LT 182
Db 300 LT 301

RESULT 6
US-09-920-552-16
; Sequence 16, Application US/09920552
; Patent No. US20020094576A1
; GENERAL INFORMATION:
; APPLICANT: Griffiths, David J.
; APPLICANT: Weiss, Robin A.
; APPLICANT: Venables, Patrick
; TITLE OF INVENTION: Material and Methods Relating to a No. US20020094576A1 Retroviral
; FILE REFERENCE: Abbott Labs
; CURRENT APPLICATION NUMBER: US/09/920,552
; CURRENT FILING DATE: 2001-08-01
; PRIOR APPLICATION NUMBER: 09/280,329
; PRIOR FILING DATE: 1999-03-29
; PRIOR APPLICATION NUMBER: GB 9806649.1
; PRIOR FILING DATE: 1998-03-27
; PRIOR APPLICATION NUMBER: 60/115,288
; PRIOR FILING DATE: 1999-01-08
; NUMBER OF SEQ ID NOS: 127
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 16
; LENGTH: 734
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-920-552-16

Query Match      48.1%; Score 461; DB 9; Length 734;
Best Local Similarity 47.3%; Pred. No. 1.1e-42;
Matches 86; Conservative 37; Mismatches 59; Indels 0; Gaps 0;

QY 1 FTPLAEQDCEKFAFTIPAINNKEPATRFQWKVLPQGMNSPTTCQTFVGRALQPVDRKF 60
Db 120 FSLPLEHQDIQRFATVPFSINHQGPKRYEKKVLPQGMNTPAICQLYVDQAVEFVRQOC 179

QY 61 SDCVIHYFDDILCAETKDKLIDCYTFLPAEVANAGLAISDKIQTSTPFFHYLGMQIEN 120
Db 180 PKVQILHYMDDLITAESESHLMEAYKLLLLYLEKVGLOVAPEKIQGGEVVQYLGKVTs 239

QY 121 RKIKPKQKIEIRKDTLKTNDQKLGDNINWIRPTLGIPYAMSNLFSILRGSDSLNSKRM 180
Db 240 EKVTPLFEFAIDGLQTLNDFQKLCGNLWLRPYCKLTEDMMPSFNILEGDAQLDSPRR 299

QY 181 LT 182
Db 300 LT 301

RESULT 7
US-09-960-428-6
; Sequence 6, Application US/09960428
; Patent No. US20020115147A1
; GENERAL INFORMATION:
; APPLICANT: Roche Diagnostics GmbH
; TITLE OF INVENTION: Method for producing an active heterodimeric AMV-Rt in prokaryotic
; FILE REFERENCE: 5272/00/
; CURRENT APPLICATION NUMBER: US/09/960,428
; CURRENT FILING DATE: 2001-09-21
; NUMBER OF SEQ ID NOS: 22
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 6
; LENGTH: 572
; TYPE: PRT
; ORGANISM: Avian Myeloblastosis Virus
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US-09-960-428-6

Query Match 41.1%; Score 394; DB 9; Length 572;
Best Local Similarity 45.8%; Pred. No. 2.7e-35;
Matches 82; Conservative 29; Mismatches 66; Indels 2; Gaps 2;

QY 1 FTIPLAEQDCRKAFTIPAINNKSPATRFQKVLPOGMLNSPTTCQTFVGRALQPVDRKF 60
DB 113 FSIPLAEQDRFAFTIPSVNNOAPARRFQKVLPOGMLNSPTTCQTFVGRALQPVDRKF 172
QY 61 SDCVIIHFDILCAAEKDKLIDCYITFLPAEVANAGLAIASDKIQSTPFFHYLGMQIEN 120
DB 173 PSRLMHLHYMDLLAASHDGLAAGEEVISTLERAGFTISPKVQREPQGVILGYKLS 232
QY 121 RKIKPQKIEIKDTLKLNDQKLLGDIINWIRPILGIPTYAMSNLFSILRGSDSLNSKR 179
DB 233 TYVAPVGL-VAEPRIALMDVQKLVGSLQWLRLPALGIPPELMGPFYQLRG-SDPNear 289

RESULT 8

US-09-960-428-7
; Sequence 7, Application US/09960428
; Patent No. US20020115147A1

; GENERAL INFORMATION:
; APPLICANT: Roche Diagnostics GmbH
; TITLE OF INVENTION: Method for producing an active heterodimeric AMV-RT in prokaryotic
; FILE REFERENCE: 5272/00/
; CURRENT APPLICATION NUMBER: US/09/960,428
; CURRENT FILING DATE: 2001-09-21
; NUMBER OF SEQ ID NOS: 22
; SOFTWARE: Patent in Ver. 2.1
; SEQ ID NO 7
; LENGTH: 858
; TYPE: PRT
; ORGANISM: Avian Myeloblastosis Virus

US-09-960-428-7

Query Match 41.1%; Score 394; DB 9; Length 858;
Best Local Similarity 45.8%; Pred. No. 4.8e-35;
Matches 82; Conservative 29; Mismatches 66; Indels 2; Gaps 2;

QY 1 FTIPLAEQDCRKAFTIPAINNKSPATRFQKVLPOGMLNSPTTCQTFVGRALQPVDRKF 60
DB 113 FSIPLAEQDRFAFTIPSVNNOAPARRFQKVLPOGMLNSPTTCQTFVGRALQPVDRKF 172
QY 61 SDCVIIHFDILCAAEKDKLIDCYITFLPAEVANAGLAIASDKIQSTPFFHYLGMQIEN 120
DB 173 PSRLMHLHYMDLLAASHDGLAAGEEVISTLERAGFTISPKVQREPQGVILGYKLS 232
QY 121 RKIKPQKIEIKDTLKLNDQKLLGDIINWIRPILGIPTYAMSNLFSILRGSDSLNSKR 179
DB 233 TYVAPVGL-VAEPRIALMDVQKLVGSLQWLRLPALGIPPELMGPFYQLRG-SDPNear 289

RESULT 9

US-10-104-047-2742
; Sequence 2742, Application US/10104047
; Publication No. US20030236392A1
; GENERAL INFORMATION:
; APPLICANT: HELIX RESEARCH INSTITUTE
; TITLE OF INVENTION: No. US20030236392A1e1 full length cDNA
; FILE REFERENCE: H1-A0105
; CURRENT APPLICATION NUMBER: US/10/104,047
; CURRENT FILING DATE: 2002-03-25
; PRIOR APPLICATION NUMBER:
; PRIOR FILING DATE:
; NUMBER OF SEQ ID NOS: 4096
; SOFTWARE: Patent in Ver. 2.1
; SEQ ID NO 2742
; LENGTH: 111
; TYPE: PRT
; ORGANISM: Homo sapiens

US-10-104-047-2742

Query Match 37.7%; Score 362; DB 15; Length 111;
Best Local Similarity 64.5%; Pred. No. 1.1e-32;
Matches 71; Conservative 11; Mismatches 28; Indels 0; Gaps 0;

QY 70 DILCAAEKDKLIDCYITFLPAEVANAGLAIASDKIQSTPFFHYLGMQIENRKIKPQKIE 129
DB 2 DILCAAEKDKLIDCYITFLPAEVANAGLAIASDKIQSTPFFHYLGMQIENRKIKPQKIE 61
QY 130 IRKDTLKLNDQKLLGDIINWIRPILGIPTYAMSNLFSILRGSDSLNSKR 179
DB 62 IHRNQLKTLKDKQKLLGDIINWIRPILGIPTYAMSNLFSILRGSDSLNSKR 111

RESULT 10

US-09-764-877-1706
; Sequence 1706, Application US/09764877
; Patent No. US20020147140A1

; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
; FILE REFERENCE: PC005
; CURRENT APPLICATION NUMBER: US/09/764,877
; CURRENT FILING DATE: 2001-01-17
; Prior application data removed - refer to PALM or file wrapper
; NUMBER OF SEQ ID NOS: 4031
; SOFTWARE: Patent in Ver. 2.0
; SEQ ID NO 1706
; LENGTH: 108
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-764-877-1706

Query Match 35.8%; Score 343; DB 9; Length 108;
Best Local Similarity 66.7%; Pred. No. 1.5e-30;
Matches 66; Conservative 14; Mismatches 19; Indels 0; Gaps 0;

QY 81 KLIDCYITFLPAEVANAGLAIASDKIQSTPFFHYLGMQIENRKIKPQKIEIKDTLKLND 140
DB 6 KLIDCYITFLPAEVANAGLAIASDKIQSTPFFHYLGMQIENRKIKPQKIEIKDTLKLND 65
QY 141 FOKLLGDIINWIRPILGIPTYAMSNLFSILRGSDSLNSKR 179
DB 66 FOKLLGDIINWIRPILGIPTYAMSNLFSILRGSDSLNSKR 104

RESULT 11

US-10-242-515-1706
; Sequence 1706, Application US/10242515
; Publication No. US20040009488A1

; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
; FILE REFERENCE: PC005C1
; CURRENT APPLICATION NUMBER: US/10/242,515
; CURRENT FILING DATE: 2002-09-13
; PRIOR APPLICATION NUMBER: 09/764,877
; PRIOR FILING DATE: 2001-01-17
; PRIOR APPLICATION NUMBER: 60/179,065
; PRIOR FILING DATE: 2000-01-31
; PRIOR APPLICATION NUMBER: 60/180,628
; PRIOR FILING DATE: 2000-02-04
; PRIOR APPLICATION NUMBER: 60/214,886
; PRIOR FILING DATE: 2000-06-28
; PRIOR APPLICATION NUMBER: 60/217,487
; PRIOR FILING DATE: 2000-07-11
; PRIOR APPLICATION NUMBER: 60/225,758
; PRIOR FILING DATE: 2000-08-14
; PRIOR APPLICATION NUMBER: 60/220,963
; PRIOR FILING DATE: 2000-07-26
; PRIOR APPLICATION NUMBER: 60/217,496
; PRIOR FILING DATE: 2000-07-11
; PRIOR APPLICATION NUMBER: 60/225,447

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; PRIOR FILING DATE: 2000-08-14
; PRIOR APPLICATION NUMBER: 60/218,290
; PRIOR FILING DATE: 2000-07-14
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 4031
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1706
; LENGTH: 108
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-242-515-1706

Query Match          35.8%; Score 343; DB 15; Length 108;
Best Local Similarity 66.7%; Pred.No.1.5e-30;
Matches 66; Conservative 14; Mismatches 19; Indels 0; Gaps 0;

QY 81 KLDCYTFPAEVANAGLAIASDKIQTSTFFHYLGMQIENRKIKPKQKIEIRKDTLKLND 140
Db 6 KLNDCCYQLNRCVTEAGLAIAQDKIQOTTPVYLGWVDVKQICIQPKQVIRDSLKLND 65

QY 141 FOKLLGDINWRPTLIGIPTYANMFLSILRGSDLSNKR 179
Db 66 FOKLLGNLYRLPTLIGIPTYLLSNLFSMLRGSDLSRSPR 104

RESULT 12
US-09-864-761-36676
; Sequence 36676, Application US/09864761
; Patent No. US20020048763A1
; GENERAL INFORMATION:
; APPLICANT: Penn, Sharron G.
; APPLICANT: Rank, David R.
; APPLICANT: Hanzel, David K.
; APPLICANT: Chen, Wensheng
; TITLE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USEFUL FOR
; TITLE OF INVENTION: GENE EXPRESSION ANALYSIS BY MICROARRAY
; FILE REFERENCE: Aecomica-X-1
; CURRENT APPLICATION NUMBER: US/09/864,761
; CURRENT FILING DATE: 2001-05-23
; PRIOR APPLICATION NUMBER: US 60/180,312
; PRIOR FILING DATE: 2000-02-04
; PRIOR APPLICATION NUMBER: US 60/207,456
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: US 09/632,366
; PRIOR FILING DATE: 2000-08-03
; PRIOR APPLICATION NUMBER: GB 24263.6
; PRIOR FILING DATE: 2000-10-04
; PRIOR APPLICATION NUMBER: US 60/236,359
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: PCT/US01/00666
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00667
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00664
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00659
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00665
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00668
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00663
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00662
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00661
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00670
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: US 60/234,687
; PRIOR FILING DATE: 2000-09-21
; PRIOR APPLICATION NUMBER: US 09/608,408
; PRIOR FILING DATE: 2000-06-30

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LENGTH: 578 amino acids
TYPE: amino acid
STRANDEDNESS:
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-808-031A-30

Query Match 26.0%; Score 249; DB 8; Length 578;
Best Local Similarity 36.0%; Pred. No. 6e-19;
Matches 67; Conservative 28; Mismatches 69; Indels 22; Gaps 7;

QY 1 FTPLAEQDCEKFAFTIPAINNKEPATRFQWKVLPQGLNSPTICQTFVGRALQVDRKF 60
Db 106 FOIPLPKQFOFYFAFTVQCCNYGPGTRYAKWVLPQGFKNSTPLFEMQLAHILQPIROAF 165

QY 61 SDCYIIHYFDDILCAAETKDKLIDCYTFLPAEVANAGLAIASDKI-QTSTPPHYLGMQIE 119
Db 166 PQCTILQYMDILLASPSHEDLLLSSEATWASLISHGLPVSENKTQQTPTIKFLG-QI- 223

QY 120 NRKIKPKQIEIRKDTLKT-----LNDFOKLGDINWI 151
Db 224 ---ISPNI--HLTYDAVPTPIRSRWALPELQALIGEIQWV 258

QY 169 LRQDSD 174
Db 276 LQRHTD 281

RESULT 14
US-08-808-031A-4
; Sequence 4, Application US/08808031A
; Publication No. US20020048802A1
; GENERAL INFORMATION:
; APPLICANT: Inouye, Sumiko
; APPLICANT: Hsu, Mei-Yin
; APPLICANT: Eagle, Susan
; APPLICANT: Inouye, Masayori
; TITLE OF INVENTION: PROKARYOTIC REVERSE TRANSCRIPTASE
; NUMBER OF SEQUENCES: 52
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: WEISER & ASSOCIATES
; STREET: 230 South Fifteenth Street, Suite 500
; CITY: Philadelphia
; STATE: PA
; COUNTRY: USA
; ZIP: 19102
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/808,031A
; FILING DATE: 03-MAR-1997
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Weiser, Gerard J.
; REGISTRATION NUMBER: 19,763
; REFERENCE/DOCKET NUMBER: 377(913).5888P
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 215-875-8383
; TELEFAX: 215-875-8394
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 263 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-808-031A-4

Query Match 24.9%; Score 239; DB 8; Length 263;
Best Local Similarity 37.5%; Pred. No. 2.7e-18;

Matches 60; Conservative 23; Mismatches 61; Indels 16; Gaps 5;

QY 1 FTPLAEQDCEKFAFTIPAINNKEPATRFQWKVLPQGLNSPTICQTFVGRALQVDRKF 60
Db 106 FOIPLPKQFOFYFAFTVQCCNYGPGTRYAKWVLPQGFKNSTPLFEMQLAHILQPIROAF 165

QY 61 SDCYIIHYFDDILCAAETKDKLIDCYTFLPAEVANAGLAIASDKI-QTSTPPHYLGMQIE 119
Db 166 PQCTILQYMDILLASPSHEDLLLSSEATWASLISHGLPVSENKTQQTPTIKFLG-QI- 223

QY 120 NRKIKPKQIEIRKDTLKT-----LNDFOKLGDINWI 151
Db 224 ---ISPNI--HLTYDAVPTPIRSRWALPELQALIGEIQWV 258

RESULT 15
US-09-946-239-9
; Sequence 9, Application US/09946239
; Patent No. US20020044945A1
; GENERAL INFORMATION:
; APPLICANT: Barr, Margaret C.
; TITLE OF INVENTION: No. US20020044945A1el Feline Immunodeficiency Virus Nucleotide a
; FILE REFERENCE: 18617.0059
; CURRENT APPLICATION NUMBER: US/09/946.239
; CURRENT FILING DATE: 2001-09-04
; PRIOR APPLICATION NUMBER: US 09/238,303, US 60/072,927
; PRIOR FILING DATE: 1999-01-28, 1998-01-29
; NUMBER OF SEQ ID NOS: 17
; SEQ ID NO 9
; LENGTH: 1150
; TYPE: PRT
; ORGANISM: Unknown
; FEATURE:
; OTHER INFORMATION: protein encoded by the pol gene of a recombinant viral
; OTHER INFORMATION: clone constructed from the genomic DNA of a Pallas's cat feline
; OTHER INFORMATION: immunodeficiency virus
US-09-946-239-9

Query Match 24.9%; Score 238.5; DB 9; Length 1150;
Best Local Similarity 33.3%; Pred. No. 2.4e-17;
Matches 62; Conservative 30; Mismatches 85; Indels 9; Gaps 3;

QY 1 FTPLAEQDCEKFAFTIPAINNKEPATRFQWKVLPQGLNSPTICQTFVGRALQVDRKF 60
Db 296 FTPLDPDYAPYTAFTPLKINNPGGERFVWCGLPQGWVLSPLIYQSTLANNILKPFREQH 355

QY 61 SDCYIIHYFDDILCAAETKDKLIDCYTFLPAEVANA-----GLAIASDKIQTSTPPHYLGM 116
Db 356 PEIDLYQYMDIYIGSDLGKKE---HKQIVEELKLLWGFETPEDKLOEQPPYKMGY 412

QY 117 QIENRKIKPKQIEIRKDTLNTLNDFOKLGDINWIPTLGIPTVAMSNLFSILRGSDSLN 176
Db 413 ELYPRKWTIQTKEIIPEEPTLNLQKLVGLIINWSSQI--IPGLRIKALTNMKGQALD 470

QY 177 SKRMLT 182
Db 471 SKRRWT 476

Search completed: May 5, 2004, 16:06:44
Job time : 39.093 secs

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: May 5, 2004, 15:53:16 ; Search time 37.8837 Seconds
(without alignments)
1324.350 Million cell updates/sec

Title: US-09-490-700-40

Perfect score: 978

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Gapop 10.0 , Gapext 0.5

Searched: 1138120 segs, 27189581 residues

Total number of hits satisfying chosen parameters: 1138120

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications AA.*

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- 2: /cgn2_6/ptodata/2/pubaa/PCT_NEW_PUB.pep.*
- 3: /cgn2_6/ptodata/2/pubaa/US06_NEW_PUB.pep.*
- 4: /cgn2_6/ptodata/2/pubaa/US06_PUBCOMB.pep.*
- 5: /cgn2_6/ptodata/2/pubaa/US07_NEW_PUB.pep.*
- 6: /cgn2_6/ptodata/2/pubaa/PCTUS_PUBCOMB.pep.*
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- 11: /cgn2_6/ptodata/2/pubaa/US09C_PUBCOMB.pep.*
- 12: /cgn2_6/ptodata/2/pubaa/US09_NEW_PUB.pep.*
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- 14: /cgn2_6/ptodata/2/pubaa/US10B_PUBCOMB.pep.*
- 15: /cgn2_6/ptodata/2/pubaa/US10C_PUBCOMB.pep.*
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- 17: /cgn2_6/ptodata/2/pubaa/US60_NEW_PUB.pep.*
- 18: /cgn2_6/ptodata/2/pubaa/US60_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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1	840	85.9	153	14	US-10-235-091-1
2	840	85.9	153	15	US-10-233-958-7
3	840	85.9	560	15	US-10-233-958-9
4	840	85.9	560	15	US-10-233-958-10
5	832	85.1	560	15	US-10-233-958-11
6	831	85.0	560	15	US-10-233-958-8
7	220	22.5	48	9	US-09-864-761-33768
8	184.5	18.9	146	12	US-10-243-552-540
9	87	8.9	164	15	US-10-104-047-2900
10	85	8.7	16	14	US-10-236-091-2
11	84	8.6	15	14	US-10-236-091-3
12	84	8.6	844	14	US-10-156-761-7663
13	83.5	8.5	1008	12	US-10-276-774-1897
14	82.5	8.4	1078	12	US-10-170-385-295
15	81	8.3	15	14	US-10-236-091-4

16	80.5	8.2	2813	9	US-09-886-900-2	Sequence 2, Appli
17	79.5	8.1	616	12	US-10-425-114-71464	Sequence 71464, A
18	79	8.1	295	12	US-10-412-699B-26	Sequence 26, Appl
19	79	8.1	295	12	US-10-225-066A-686	Sequence 686, App
20	79	8.1	295	14	US-10-278-536-184	Sequence 184, App
21	79	8.1	295	15	US-10-421-138A-103	Sequence 103, App
22	79	8.1	295	15	US-10-374-780A-2212	Sequence 2212, Ap
23	77	7.9	203	12	US-10-424-599-154998	Sequence 154998, App
24	76	7.8	2301	15	US-10-094-886-138	Sequence 138, App
25	75	7.7	475	12	US-10-424-599-271886	Sequence 271886, App
26	75	7.7	481	10	US-09-759-967-21	Sequence 21, Appl
27	75	7.7	481	12	US-10-424-599-171702	Sequence 171702, A
28	75	7.7	488	12	US-10-425-114-43865	Sequence 43865, A
29	75	7.7	489	12	US-10-425-114-45639	Sequence 45639, A
30	75	7.7	491	12	US-10-425-114-44047	Sequence 44047, A
31	75	7.7	492	12	US-10-425-114-43836	Sequence 43836, A
32	75	7.7	492	12	US-10-425-114-46294	Sequence 46294, A
33	74	7.6	371	12	US-10-425-114-47934	Sequence 47934, A
34	74	7.6	502	12	US-10-424-599-182969	Sequence 182969, A
35	73.5	7.5	271	12	US-10-425-114-67471	Sequence 67471, A
36	73.5	7.5	467	15	US-10-051-874-104	Sequence 104, App
37	73.5	7.5	511	15	US-10-051-874-104	Sequence 104, App
38	73.5	7.5	1420	9	US-09-801-368-356	Sequence 356, App
39	73.5	7.5	1618	12	US-10-424-599-206388	Sequence 206388, App
40	72.5	7.4	602	15	US-10-360-937-52	Sequence 52, Appl
41	72.5	7.4	687	9	US-09-792-630-37	Sequence 37, Appl
42	72.5	7.4	687	10	US-09-953-351-37	Sequence 37, Appl
43	72.5	7.4	687	13	US-10-080-376-37	Sequence 37, Appl
44	72.5	7.4	687	14	US-10-082-671-43	Sequence 43, Appl
45	72.5	7.4	687	14	US-10-097-100-37	Sequence 37, Appl

ALIGNMENTS

RESULT 1

US-10-236-091-1
; Sequence 1, Application US/10236091
; Publication No. US20030162263A1
; GENERAL INFORMATION:
; APPLICANT: Dupuis, Marc
; TITLE OF INVENTION: Peptides Derived from the Superantigen (SAG) ENV
; TITLE OF INVENTION: Protein of HERV-K18 and Their Use in Obtaining
; TITLE OF INVENTION: SAG-Inhibitory Antibodies and in Vaccination Against
; TITLE OF INVENTION: SAG
; FILE REFERENCE: 23135-506
; CURRENT APPLICATION NUMBER: US/10/236,091
; CURRENT FILING DATE: 2002-09-06
; PRIOR FILING DATE: 2001-09-06
; PRIOR FILING DATE: 2001-09-06
; PRIOR APPLICATION NUMBER: 60/317,703
; PRIOR APPLICATION NUMBER: 60/317,704
; NUMBER OF SEQ ID NOS: 5
; SOFTWARE: Patent in Ver. 2.1
; SEQ ID NO 1
; LENGTH: 153
; TYPE: PRT
; ORGANISM: Human endogenous retrovirus
US-10-236-091-1

Query Match 85.9%; Score 840; DB 14; Length 153;
Best Local Similarity 100.0%; Pred. No. 4.5e-87;
Matches 153; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Qy	61	LMPAVQNLWVEVTPVSPNSRFTYHVMYSGMSLRPRVNYLODFSQVRSKLPKPKTKCPKEI	120
Db	61	LMPAVQNLWVEVTPVSPNSRFTYHVMYSGMSLRPRVNYLODFSQVRSKLPKPKTKCPKEI	120
Qy	121	PKGSKNTEVLWBEUCVANSVVIILQNNFGTIID	153

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Db 121 PGSKNTEVLWEECVANSVILQNEFGTIID 153

RESULT 2
US-10-233-958-7
; Sequence 7, Application US/10233958
; Publication No. US20040009468A1
; GENERAL INFORMATION:
; APPLICANT: Mach, Bernard
; TITLE OF INVENTION: Allelic Variants of HER V-K18, Method for the Analysis
; TITLE OF INVENTION: Thereof and Use in the Determination of Genetic
; TITLE OF INVENTION: Predisposition for Disorders Involving the HERV-K18
; TITLE OF INVENTION: Provirus
; FILE REFERENCE: 23135-504
; CURRENT APPLICATION NUMBER: US/10/233,958
; CURRENT FILING DATE: 2002-09-03
; PRIOR APPLICATION NUMBER: 60/316,513
; PRIOR FILING DATE: 2001-08-31
; PRIOR APPLICATION NUMBER: 60/316,522
; PRIOR FILING DATE: 2001-08-31
; NUMBER OF SEQ ID NOS: 46
; SOFTWARE: Patent In Ver. 2.1
; SEQ ID NO 7
; LENGTH: 153
; TYPE: PRT
; ORGANISM: Human endogenous retrovirus
US-10-233-958-7

Query Match 85.9%; Score 840; DB 15; Length 153;
Best Local Similarity 100.0%; Pred. No. 4.5e-87;
Matches 153; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db 1 MVTPTWMDNPIEVYVNDSDVWVPGPTDDRCPCAPKEEGMMINISIGYHYPPICLGRAPGC 60
QY 61 LMPAVQNLWLEVPVTSNSRFTYHVMYSGMSLRPRVNYLQDFSYQSLKFRPKGKTCPKKEI 120
Db 61 LMPAVQNLWLEVPVTSNSRFTYHVMYSGMSLRPRVNYLQDFSYQSLKFRPKGKTCPKKEI 120
QY 121 PGSKNTEVLWEECVANSVILQNEFGTIID 153
Db 121 PGSKNTEVLWEECVANSVILQNEFGTIID 153

RESULT 3
US-10-233-958-9
; Sequence 9, Application US/10233958
; Publication No. US20040009468A1
; GENERAL INFORMATION:
; APPLICANT: Mach, Bernard
; TITLE OF INVENTION: Allelic Variants of HER V-K18, Method for the Analysis
; TITLE OF INVENTION: Thereof and Use in the Determination of Genetic
; TITLE OF INVENTION: Predisposition for Disorders Involving the HERV-K18
; TITLE OF INVENTION: Provirus
; FILE REFERENCE: 23135-504
; CURRENT APPLICATION NUMBER: US/10/233,958
; CURRENT FILING DATE: 2002-09-03
; PRIOR APPLICATION NUMBER: 60/316,513
; PRIOR FILING DATE: 2001-08-31
; PRIOR APPLICATION NUMBER: 60/316,522
; PRIOR FILING DATE: 2001-08-31
; NUMBER OF SEQ ID NOS: 46
; SOFTWARE: Patent In Ver. 2.1
; SEQ ID NO 9
; LENGTH: 560
; TYPE: PRT
; ORGANISM: Human endogenous retrovirus
US-10-233-958-9

Query Match 85.9%; Score 840; DB 15; Length 560;
Best Local Similarity 100.0%; Pred. No. 2.7e-86;
Matches 153; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db 61 LMPAVQNLWLEVPVTSNSRFTYHVMYSGMSLRPRVNYLQDFSYQSLKFRPKGKTCPKKEI 120
QY 121 PGSKNTEVLWEECVANSVILQNEFGTIID 153
Db 121 PGSKNTEVLWEECVANSVILQNEFGTIID 153

RESULT 5
US-10-233-958-1
; Sequence 1, Application US/10233958
; Publication No. US20040009468A1
; GENERAL INFORMATION:
; APPLICANT: Mach, Bernard
; TITLE OF INVENTION: Allelic Variants of HER V-K18, Method for the Analysis
; TITLE OF INVENTION: Thereof and Use in the Determination of Genetic
; TITLE OF INVENTION: Predisposition for Disorders Involving the HERV-K18
; TITLE OF INVENTION: Provirus
; FILE REFERENCE: 23135-504
; CURRENT APPLICATION NUMBER: US/10/233,958
; CURRENT FILING DATE: 2002-09-03
; PRIOR APPLICATION NUMBER: 60/316,513
; PRIOR FILING DATE: 2001-08-31
; PRIOR APPLICATION NUMBER: 60/316,522
; PRIOR FILING DATE: 2001-08-31
; NUMBER OF SEQ ID NOS: 46
; SOFTWARE: Patent In Ver. 2.1
; SEQ ID NO 1
; LENGTH: 560
; TYPE: PRT
; ORGANISM: Human endogenous retrovirus
US-10-233-958-1

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QY 121 PGSKNTEVLWEECVANSVILQNEFGTIID 153
Db 121 PGSKNTEVLWEECVANSVILQNEFGTIID 153
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; CURRENT FILING DATE: 2002-09-03
; PRIOR APPLICATION NUMBER: 60/316,513
; PRIOR FILING DATE: 2001-08-31
; PRIOR APPLICATION NUMBER: 60/316,522
; PRIOR FILING DATE: 2001-08-31
; NUMBER OF SEQ ID NOS: 46
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1
; LENGTH: 560
; TYPE: PRT
; ORGANISM: Human endogenous retrovirus
; FEATURE:
; NAME/KEY: VARIANT
; LOCATION: (97)
; OTHER INFORMATION: Where Xaa is Tyr, Cys, Phe or Ser
; FEATURE:
; NAME/KEY: VARIANT
; LOCATION: (154)
; OTHER INFORMATION: Where Xaa is Trp, Leu, Ser, or Stop
; FEATURE:
; NAME/KEY: VARIANT
; LOCATION: (272)
; OTHER INFORMATION: Where Xaa is Val, Ile or Leu
; FEATURE:
; NAME/KEY: VARIANT
; LOCATION: (348)
; OTHER INFORMATION: Where Xaa is Val, Ile, Leu or Phe
; FEATURE:
; NAME/KEY: VARIANT
; LOCATION: (534)
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Best Local Similarity 99.3%; Pred. No. 2.9e-85;
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Db 61 LMPAVQNWLVETVTPNSRFTYHVMVSGMSLRPVNVLQDFSYQSLKFRPKGKTCPKKEI 120
QY 121 PGSKNTEVLWEECVANSVWILQNNFEFTIID 153
Db 121 PGSKNTEVLWEECVANSVWILQNNFEFTIID 153
; US-10-233-958-8
; Sequence 8, Application US/10233958
; Publication No. US2004009468A1
; GENERAL INFORMATION:
; APPLICANT: Mach, Bernard
; APPLICANT: Conrad, Bernard
; TITLE OF INVENTION: Allelic Variants of HER V-K18, Method for the Analysis
; TITLE OF INVENTION: Thereof and Use in the Determination of Genetic
; TITLE OF INVENTION: Predisposition for Disorders Involving the HERV-K18
; TITLE OF INVENTION: Provirus
; FILE REFERENCE: 23135-504
; CURRENT APPLICATION NUMBER: US/10/233,958
; CURRENT FILING DATE: 2002-09-03
; PRIOR APPLICATION NUMBER: 60/316,513
; PRIOR FILING DATE: 2001-08-31
; PRIOR APPLICATION NUMBER: 60/316,522
; PRIOR FILING DATE: 2001-08-31
; NUMBER OF SEQ ID NOS: 46
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 8
; LENGTH: 560
; TYPE: PRT
; ORGANISM: Human endogenous retrovirus
; FEATURE:
; NAME/KEY: VARIANT
; LOCATION: (97)
; OTHER INFORMATION: Where Xaa is Tyr, Cys, Phe or Ser
; FEATURE:
; NAME/KEY: VARIANT
; LOCATION: (154)
; OTHER INFORMATION: Where Xaa is Trp, Leu, Ser, or Stop
; FEATURE:
; NAME/KEY: VARIANT
; LOCATION: (272)
; OTHER INFORMATION: Where Xaa is Val, Ile or Leu
; FEATURE:
; NAME/KEY: VARIANT
; LOCATION: (348)
; OTHER INFORMATION: Where Xaa is Val, Ile, Leu or Phe
; FEATURE:
; NAME/KEY: VARIANT
; LOCATION: (534)
; OTHER INFORMATION: Where Xaa is Val, Ile, Leu or Phe
; US-10-233-958-1
Query Match      85.1%; Score 832; DB 15; Length 560;
Best Local Similarity 99.3%; Pred. No. 2.2e-85;
Matches 152; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
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QY 61 LMPAVQNWLVETVTPNSRFTYHVMVSGMSLRPVNVLQDFSYQSLKFRPKGKTCPKKEI 120
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Db 121 PGSKNTEVLWEECVANSVWILQNNFEFTIID 153
; US-10-233-958-8
; Sequence 8, Application US/10233958
; Publication No. US2004009468A1
; GENERAL INFORMATION:
; APPLICANT: Mach, Bernard
; APPLICANT: Conrad, Bernard
; TITLE OF INVENTION: Allelic Variants of HER V-K18, Method for the Analysis
; TITLE OF INVENTION: Thereof and Use in the Determination of Genetic
; TITLE OF INVENTION: Predisposition for Disorders Involving the HERV-K18
; TITLE OF INVENTION: Provirus
; FILE REFERENCE: 23135-504
; CURRENT APPLICATION NUMBER: US/10/233,958
; CURRENT FILING DATE: 2002-09-03
; PRIOR APPLICATION NUMBER: 60/316,513
; PRIOR FILING DATE: 2001-08-31
; PRIOR APPLICATION NUMBER: 60/316,522
; PRIOR FILING DATE: 2001-08-31
; NUMBER OF SEQ ID NOS: 46
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 8
; LENGTH: 560
; TYPE: PRT
; ORGANISM: Human endogenous retrovirus
; FEATURE:
; NAME/KEY: VARIANT
; LOCATION: (97)
; OTHER INFORMATION: Where Xaa is Tyr, Cys, Phe or Ser
; FEATURE:
; NAME/KEY: VARIANT
; LOCATION: (154)
; OTHER INFORMATION: Where Xaa is Trp, Leu, Ser, or Stop
; FEATURE:
; NAME/KEY: VARIANT
; LOCATION: (272)
; OTHER INFORMATION: Where Xaa is Val, Ile or Leu
; FEATURE:
; NAME/KEY: VARIANT
; LOCATION: (348)
; OTHER INFORMATION: Where Xaa is Val, Ile, Leu or Phe
; FEATURE:
; NAME/KEY: VARIANT
; LOCATION: (534)
; OTHER INFORMATION: Where Xaa is Val, Ile, Leu or Phe
; US-10-233-958-1
Query Match      85.0%; Score 831; DB 15; Length 560;
Best Local Similarity 99.3%; Pred. No. 2.9e-85;
Matches 152; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 1 MVTPTVMNDNPIEVYVNDVSVVWPGPTDDRCAPKPEEGMMINISIGYHYPPICLGRAPGC 60
Db 1 MVTPTVMNDNPIEVYVNDVSVVWPGPTDDRCAPKPEEGMMINISIGYHYPPICLGRAPGC 60
QY 61 LMPAVQNWLVETVTPNSRFTYHVMVSGMSLRPVNVLQDFSYQSLKFRPKGKTCPKKEI 120
Db 61 LMPAVQNWLVETVTPNSRFTYHVMVSGMSLRPVNVLQDFSYQSLKFRPKGKTCPKKEI 120
QY 121 PGSKNTEVLWEECVANSVWILQNNFEFTIID 153
Db 121 PGSKNTEVLWEECVANSVWILQNNFEFTIID 153
; US-10-233-958-8
; Sequence 8, Application US/09864761
; Patent No. US20020048763A1
; GENERAL INFORMATION:
; APPLICANT: Penn, Sharron G.
; APPLICANT: Rank, David R.
; APPLICANT: Hanzel, David K.
; APPLICANT: Chen, Wensheng
; TITLE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USEFUL FOR
; TITLE OF INVENTION: GENE EXPRESSION ANALYSIS BY MICROARRAY
; FILE REFERENCE: Aescmca-X-1
; CURRENT APPLICATION NUMBER: US/09/864,761
; CURRENT FILING DATE: 2001-05-23
; PRIOR APPLICATION NUMBER: US 60/180,312
; PRIOR FILING DATE: 2000-02-04
; PRIOR APPLICATION NUMBER: US 60/207,456
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: US 09/632,366
; PRIOR FILING DATE: 2000-08-03
; PRIOR APPLICATION NUMBER: GB 24263.6
; PRIOR FILING DATE: 2000-10-04
; PRIOR APPLICATION NUMBER: US 60/236,359
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: PCT/US01/00666
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00667
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00664
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00669
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00665
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00668
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00663
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00662
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00661
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00670
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: US 60/234,687
; PRIOR FILING DATE: 2000-09-21
; PRIOR APPLICATION NUMBER: US 09/608,408
; PRIOR FILING DATE: 2000-06-30
; PRIOR APPLICATION NUMBER: US 09/774,203
; PRIOR FILING DATE: 2001-01-29
; NUMBER OF SEQ ID NOS: 49117
; SOFTWARE: Annomax Sequence Listing Engine vers. 1.1
; SEQ ID NO 33768
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/ LENGTH: 48
/ TYPE: PRT
/ ORGANISM: Homo sapiens
/ FEATURE:
/ OTHER INFORMATION: MAP TO AL035086.12
/ OTHER INFORMATION: EXPRESSED IN PLACENTA, SIGNAL = 0.98
/ OTHER INFORMATION: EXPRESSED IN LUNG, SIGNAL = 1.1
/ OTHER INFORMATION: EXPRESSED IN HELA, SIGNAL = 1.5
/ OTHER INFORMATION: EXPRESSED IN ADULT LIVER, SIGNAL = 1.1
/ OTHER INFORMATION: EXPRESSED IN BT474, SIGNAL = 2
/ OTHER INFORMATION: EXPRESSED IN BONE MARROW, SIGNAL = 1.7
/ OTHER INFORMATION: EXPRESSED IN HEL100, SIGNAL = 1.2
/ OTHER INFORMATION: EXPRESSED IN FETAL LIVER, SIGNAL = 1.1
/ OTHER INFORMATION: EXPRESSED IN BRAIN, SIGNAL = 1.7
/ OTHER INFORMATION: EXPRESSED IN HEART, SIGNAL = 1.4
/ OTHER INFORMATION: EST_HUMAN HIT: AA668498.1, EVALUE 7.00e-16
/ OTHER INFORMATION: SWISSPROT HIT: P10267, EVALUE 6.00e-19
US-09-864-761-33768

Query Match      22.5%; Score 220; DB 9; Length 48;
Best Local Similarity 83.3%; Pred. No. 2.6e-17;
Matches 40; Conservative 1; Mismatches 7; Indels 0; Gaps 0;

QY 47 YHYPICLGRAPGCLMPAVQWLVETVSPNSRFTYHYMGSLRPR 94
      |||||
Db 1 YCYPPICLGRAPGCLMPTTQNLVETVSGTFTYHRYSGMSLRPQ 48
      |||||

RESULT 8
US-10-243-552-540
/ Sequence 540, Application US/10243552
/ Publication No. US20030224379A1
/ GENERAL INFORMATION:
/ APPLICANT: Tang, Y. Tom
/ APPLICANT: Yang, Yonghong
/ APPLICANT: Wang, Zhwei
/ APPLICANT: Weng, Gezhai
/ APPLICANT: Ma, Yunqing
/ TITLE OF INVENTION: Novel Nucleic Acids and
/ TITLE OF INVENTION: Polypeptides
/ FILE REFERENCE: 807A
/ CURRENT APPLICATION NUMBER: US/10/243,552
/ CURRENT FILING DATE: 2002-09-12
/ PRIOR APPLICATION NUMBER: US 60/322,511
/ PRIOR FILING DATE: 2001-09-13
/ PRIOR APPLICATION NUMBER: PCT/US00/35017
/ PRIOR FILING DATE: 2000-12-22
/ PRIOR APPLICATION NUMBER: US 09/488,725
/ PRIOR FILING DATE: 2000-01-21
/ PRIOR APPLICATION NUMBER: US 09/552,317
/ PRIOR FILING DATE: 2000-04-25
/ PRIOR APPLICATION NUMBER: PCT/US01/02623
/ PRIOR FILING DATE: 2001-01-25
/ PRIOR APPLICATION NUMBER: US 09/491,404
/ PRIOR FILING DATE: 2000-01-25
/ PRIOR APPLICATION NUMBER: PCT/US01/03800
/ PRIOR FILING DATE: 2001-02-05
/ PRIOR APPLICATION NUMBER: US 09/496,914
/ PRIOR FILING DATE: 2000-02-03
/ PRIOR APPLICATION NUMBER: US 09/560,875
/ PRIOR FILING DATE: 2000-04-27
/ PRIOR APPLICATION NUMBER: PCT/US01/04927
/ PRIOR FILING DATE: 2001-02-26
/ Remaining Prior: Application data removed - See File Wrapper or PALM.
/ NUMBER OF SEQ ID NOS: 998
/ SOFTWARE: pt_FL_genes Version 5.0
/ SEQ ID NO 540
/ LENGTH: 146
/ TYPE: PRT
/ ORGANISM: Homo sapiens
US-10-243-552-540

Query Match      18.9%; Score 184.5; DB 12; Length 146;

Best Local Similarity 53.1%; Pred. No. 1.3e-12;
Matches 34; Conservative 11; Mismatches 18; Indels 1; Gaps 1;

QY 1 MYTPVTWMDNPLEVYVNDVSVVPGTDDRCCKAPEEGMINISIGYHYPPICLG-RAPG 59
      :|||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 59 LIRAMTWMDAPLEVYVNDVSIWMPGSDRCPAQPSEGTFFNITLGFRTLVQGVGRASG 118
      :|||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
QY 60 CLMP 63
      :|||
Db 119 IPIP 122
      :|||

RESULT 9
US-10-104-047-2900
/ Sequence 2900, Application US/10104047
/ Publication No. US20030236392A1
/ GENERAL INFORMATION:
/ APPLICANT: HELIX RESEARCH INSTITUTE
/ TITLE OF INVENTION: No. US20030236392A1e1 full length cDNA
/ FILE REFERENCE: H1-A0105
/ CURRENT APPLICATION NUMBER: US/10/104,047
/ CURRENT FILING DATE: 2002-03-25
/ PRIOR APPLICATION NUMBER:
/ PRIOR FILING DATE:
/ NUMBER OF SEQ ID NOS: 4096
/ SOFTWARE: PatentIn Ver. 2.1
/ SEQ ID NO 2900
/ LENGTH: 164
/ TYPE: PRT
/ ORGANISM: Homo sapiens
US-10-104-047-2900

Query Match      8.9%; Score 87; DB 15; Length 164;
Best Local Similarity 32.7%; Pred. No. 0.19;
Matches 17; Conservative 7; Mismatches 18; Indels 10; Gaps 1;

QY 129 VLWVEECVANSVILQNNFETIIDLGTSRILPQLRTNSVSKCTSESSC 180
      |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 3 VLWVEDCIAEQAEVLHNDYGVIIIDCSPK-----GMFSLNCASQSAC 44
      |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:

RESULT 10
US-10-236-091-2
/ Sequence 2, Application US/10236091
/ Publication No. US20030162263A1
/ GENERAL INFORMATION:
/ APPLICANT: Dupuis, Marc
/ TITLE OF INVENTION: Peptides Derived from the Superantigen (SAG) ENV
/ TITLE OF INVENTION: Protein of HERV-K18 and Their Use in Obtaining
/ TITLE OF INVENTION: SAG-Inhibitory Antibodies and in Vaccination Against
/ TITLE OF INVENTION: SAG
/ FILE REFERENCE: 23135-506
/ CURRENT APPLICATION NUMBER: US/10/236,091
/ CURRENT FILING DATE: 2002-09-06
/ PRIOR APPLICATION NUMBER: 60/317,703
/ PRIOR FILING DATE: 2001-09-06
/ PRIOR APPLICATION NUMBER: 60/317,704
/ PRIOR FILING DATE: 2001-09-06
/ NUMBER OF SEQ ID NOS: 5
/ SOFTWARE: PatentIn Ver. 2.1
/ SEQ ID NO 2
/ LENGTH: 16
/ TYPE: PRT
/ ORGANISM: Human endogenous retrovirus
US-10-236-091-2

Query Match      8.7%; Score 85; DB 14; Length 16;
Best Local Similarity 100.0%; Pred. No. 0.012;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 116 CPKEIPKSGSKNTEVLV 131
      |||||
Db 1 CPKEIPKSGSKNTEVLV 16
      |||||
```

Db 395 AAWTRQGHSHVMVPLRAHGTTLGVALFARSHR-----PBFFADDLWLAE 442

QY 135 CVANSWILQN-----NEFGTIIDLGTSRILPQLL 165
Db 443 LTAQTAVHLHNAHREHREHHTITML--QRSLLPQKL 476

RESULT 13

US-10-276-774-1897
; Sequence 1897, Application US/10276774
; Publication No. US20040053245A1
; GENERAL INFORMATION:
; APPLICANT: Hyseq, Inc.
; APPLICANT: Tang, Y, Tom et al
; TITLE OF INVENTION: No. US20040053245A1el Nucleic Acids and Polypeptides
; FILE REFERENCE: 21272-030
; CURRENT APPLICATION NUMBER: US/10/276,774
; CURRENT FILING DATE: 2002-11-18
; PRIOR APPLICATION NUMBER: 09/560,875
; PRIOR FILING DATE: 2000-04-27
; PRIOR APPLICATION NUMBER: 09/496,914
; PRIOR FILING DATE: 2000-02-03
; NUMBER OF SEQ ID NOS: 2700
; SOFTWARE: Custom
; SEQ ID NO 1897
; LENGTH: 1008
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc.feature
; LOCATION: (1)...(1008)
; OTHER INFORMATION: Xaa = any amino acid or nothing
US-10-276-774-1897

Query Match 8.5%; Score 83.5; DB 12; Length 1008;
Best Local Similarity 29.3%; Pred. No. 6;
Matches 27; Conservative 13; Mismatches 33; Indels 19; Gaps 5;

QY 2 VTPVTWMDNP-----IEYVNDVSVWVGPTDRCFPAKEEGMINISIG--YH 48
Db 160 LTPAQLLQPGVLAAPGPHVPGFLAQSPW-PLPSGPRSPXDPDLHQALVPLPQGGSPH 218
QY 49 YPPICLGRAPCLMPAVQNMVLEVTVPNSR 80
Db 219 TAPHCL---PSVLSPAIQQL--LPTASTSSR 245

RESULT 14

US-10-170-385-295
; Sequence 295, Application US/10170385
; Publication No. US2003020372A1
; GENERAL INFORMATION:
; APPLICANT: Ward, Neil Raymond
; APPLICANT: Mundy, Christopher Robert
; APPLICANT: Kan, On
; APPLICANT: Harris, Robert Alan
; APPLICANT: White, Jonathan
; APPLICANT: Binley, Katie Mary
; APPLICANT: Rayner, William Nigel
; APPLICANT: Naylor, Stuart
; APPLICANT: Kingsman, Susan Mary
; APPLICANT: Krige, David
; TITLE OF INVENTION: ANALYSIS METHOD
; FILE REFERENCE: 53268200100
; CURRENT APPLICATION NUMBER: US/10/170,385
; CURRENT FILING DATE: 2002-06-12
; PRIOR APPLICATION NUMBER: PCT/GB02/01662
; PRIOR FILING DATE: 2002-04-08
; PRIOR APPLICATION NUMBER: PCT/GB01/05458
; PRIOR FILING DATE: 2001-12-10
; NUMBER OF SEQ ID NOS: 549
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 295

RESULT 11
US-10-236-091-3
; Sequence 3, Application US/10236091
; Publication No. US20030162263A1
; GENERAL INFORMATION:
; APPLICANT: Dupuis, Marc
; TITLE OF INVENTION: Peptides Derived from the Superantigen (SAG) ENV
; TITLE OF INVENTION: Protein of HERV-K18 and Their Use in Obtaining
; TITLE OF INVENTION: SAG-Inhibitory Antibodies and in Vaccination Against
; TITLE OF INVENTION: SAG
; FILE REFERENCE: 23135-506
; CURRENT APPLICATION NUMBER: US/10/236,091
; CURRENT FILING DATE: 2002-09-06
; PRIOR APPLICATION NUMBER: 60/317,703
; PRIOR FILING DATE: 2001-09-06
; PRIOR APPLICATION NUMBER: 60/317,704
; PRIOR FILING DATE: 2001-09-06
; NUMBER OF SEQ ID NOS: 5
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 3
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Human endogenous retrovirus
US-10-236-091-3

Query Match 8.6%; Score 84; DB 14; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.015;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 113 GKTCPEIKPKGSKNT 127
Db 1 GKTCPEIKPKGSKNT 15

RESULT 12

US-10-156-761-7663
; Sequence 7663, Application US/10156761
; Publication No. US20030119018A1
; GENERAL INFORMATION:
; APPLICANT: OMURA, SATOSHI
; APPLICANT: IKEDA, HARUO
; APPLICANT: ISHIKAWA, JUN
; APPLICANT: HORIKAWA, HIROSHI
; APPLICANT: SHIBA, TADAYOSHI
; APPLICANT: SAKAKI, YOSHIYUKI
; APPLICANT: HATTORI, MASAHIEA
; TITLE OF INVENTION: NOVEL POLYNUCLEOTIDES
; FILE REFERENCE: 249-262
; CURRENT APPLICATION NUMBER: US/10/156,761
; CURRENT FILING DATE: 2002-05-29
; PRIOR APPLICATION NUMBER: JP 2001-204089
; PRIOR FILING DATE: 2001-05-30
; PRIOR APPLICATION NUMBER: JP 2001-272697
; PRIOR FILING DATE: 2001-08-02
; NUMBER OF SEQ ID NOS: 15109
; SEQ ID NO 7663
; LENGTH: 844
; TYPE: PRT
; ORGANISM: Streptomyces avermitilis
US-10-156-761-7663

Query Match 8.6%; Score 84; DB 14; Length 844;
Best Local Similarity 27.6%; Pred. No. 4.1;
Matches 43; Conservative 15; Mismatches 64; Indels 34; Gaps 7;

QY 24 GPTRDRCFPAKEEGMINISIGVHYPP---PI--CLGRAPGCLM---PAVQNMVLEVPT 74
Db 341 GDGSDTHPATPPAGEKI-----LTPAQSPVQAQCLAQHGALYEADDPALTRWANDPT 394
QY 75 VSPNSRFTYHMVGMGLRPRVWYLDQFSYQRSKFRPKGKTCPEIKPKGSKNTVELWEE 134

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; LENGTH: 1078
; TYPE: PRT
; ORGANISM: Homo Sapiens
US-10-170-385-295

Query Match      8.4%; Score 82.5; DB 12; Length 1078;
Best Local Similarity 23.8%; Pred. No. 8.5;
Matches 39; Conservative 23; Mismatches 61; Indels 41; Gaps 7;

QY 44 SIGHYPPICLGRAPGCLMPAVQNWLVETVPSNSRFTY-----HM--- 85
Db 272 SVGYSTP-----SLPEGYQNTTPGATGVPPSSLNYPSPGQAFQTQPLGANHLTTS 322
QY 86 VSGMSLPR-----VNYLQDSYQBSLFRPKGKTCPKKEIPKSKNTEVLVWEECVANSV- 140
Db 323 MSGLSLQPEGLRVVNLQERNMLPSTPLKPPVFNHLHEDIQKLNCPLEF---RCTLTSIP 379
QY 141 ---VILQNNFETIIDLGTSRSLPQLLRNNSVVKCTSSSCR 181
Db 380 QTQALLNKAKLPLGLLLHHPKDLVQLPVTSSIVRC---RSCR 420
```

```
RESULT 15
US-10-236-091-4
; Sequence 4, Application US/10236091
; Publication No. US20030162263A1
; GENERAL INFORMATION:
; APPLICANT: Dupuis, Marc
; TITLE OF INVENTION: Peptides Derived from the Superantigen (SAG) ENV
; TITLE OF INVENTION: Protein of HERV-K18 and Their Use in Obtaining
; TITLE OF INVENTION: SAG-Inhibitory Antibodies and in Vaccination Against
; TITLE OF INVENTION: SAG
; FILE REFERENCE: 23135-506
; CURRENT APPLICATION NUMBER: US/10/236,091
; CURRENT FILING DATE: 2002-09-06
; PRIOR APPLICATION NUMBER: 60/317,703
; PRIOR FILING DATE: 2001-09-05
; PRIOR APPLICATION NUMBER: 60/317,704
; PRIOR FILING DATE: 2001-09-06
; NUMBER OF SEQ ID NOS: 5
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 4
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Human endogenous retrovirus
US-10-236-091-4
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Query Match      8.3%; Score 81; DB 14; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.032;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 116 CPKEIPKSKNTEVL 130
Db 1 CPKEIPKSKNTEVL 15
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Search completed: May 5, 2004, 16:06:43
Job time : 38.8837 secs

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: May 5, 2004, 15:48:56 ; Search time 15.0833 Seconds
(without alignments)
619.512 Million cell updates/sec

Title: US-09-490-700-40

Perfect score: 978

Sequence: 1 MVTPTVMDNPIEVYNDV.....PQLLRITNSVVKCTSESSCR 181

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Issued Patents AA:*

- 1: /cgm2_6/prodata/2/iaa/5A COMB.pep:*
- 2: /cgm2_6/prodata/2/iaa/5B COMB.pep:*
- 3: /cgm2_6/prodata/2/iaa/6A COMB.pep:*
- 4: /cgm2_6/prodata/2/iaa/6B COMB.pep:*
- 5: /cgm2_6/prodata/2/iaa/PCTUS COMB.pep:*
- 6: /cgm2_6/prodata/2/iaa/backfiles1.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	80.5	8.2	1003	1	US-07-991-867B-6
2	80.5	8.2	1003	1	US-08-107-755A-6
3	80.5	8.2	1003	2	US-08-544-332-6
4	80.5	8.2	1003	3	US-09-370-861A-6
5	80.5	8.2	2813	3	US-08-896-449A-2
6	80.5	8.2	2813	3	US-09-132-652-2
7	73.5	7.5	1420	2	US-08-540-804-14
8	73.5	7.5	1420	3	US-08-521-872-14
9	73.5	7.5	1420	3	US-08-590-399-14
10	73.5	7.5	1420	3	US-08-521-872-14
11	72	7.4	1342	4	US-09-561-709B-13
12	71	7.3	725	4	US-09-668-113A-8
13	70.5	7.2	1064	4	US-09-252-991A-17508
14	70	7.2	151	4	US-09-690-454-150
15	69.5	7.1	440	1	US-07-930-686-12
16	69.5	7.1	440	2	US-08-460-998-12
17	69	7.1	468	4	US-09-149-476-387
18	69	7.1	549	4	US-09-673-395A-208
19	69	7.1	549	4	US-09-673-395A-208
20	68.5	7.0	142	4	US-09-198-119C-45
21	68.5	7.0	192	1	US-08-086-428B-100
22	68.5	7.0	192	2	US-08-468-570-100
23	68.5	7.0	192	2	US-08-290-665A-100
24	68.5	7.0	192	4	US-08-466-601A-100
25	68.5	7.0	192	5	PCT-US95-10398-100
26	68.5	7.0	479	4	US-09-489-039A-11164
27	68.5	7.0	480	3	US-09-078-173A-25
28	68.5	7.0	480	3	US-09-537-357-32
29	68	6.9	268	4	US-09-252-991A-30350
30	67.5	6.9	390	4	US-09-543-681A-5753
31	67.5	6.9	473	3	US-08-857-076-99
32	67.5	6.9	484	3	US-09-080-044-7
33	67.5	6.9	484	4	US-09-531-857A-7
34	67.5	6.9	533	1	US-08-220-151-15
35	67.5	6.9	533	1	US-08-413-118-15
36	67.5	6.9	533	3	US-08-473-446-15
37	67.5	6.9	1572	2	US-08-290-731C-5
38	67.5	6.9	1596	3	US-09-356-952-3
39	67	6.9	345	4	US-09-040-220D-2
40	67	6.9	345	4	US-09-457-056-2
41	67	6.9	345	4	US-03-265-686-2
42	67	6.9	345	4	US-09-540-224-5
43	67	6.9	345	4	US-09-564-595D-33
44	67	6.9	345	4	US-09-706-968-2
45	67	6.9	345	4	US-09-723-749-2

ALIGNMENTS

RESULT 1

US-07-991-867B-6

; Sequence 6, Application US/07991867B

; Patent No. 5476781

; GENERAL INFORMATION:

; APPLICANT: Moyer, Richard W.

; APPLICANT: Hall, Richard L.

; APPLICANT: Gruidl, Michael E.

; TITLE OF INVENTION: No. 5476781el Entomopoxvirus Expression System

; NUMBER OF SEQUENCES: 66

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: David R. Saliwanchik

; STREET: 2421 N.W. 41st Street, Suite A-1

; CITY: Gainesville

; STATE: FL

; COUNTRY: USA

; ZIP: 32606

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: Patent In Release #1.0, Version #1.25

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/07/991,867B

; FILING DATE: 12-DEC-1992

; CLASSIFICATION: 435

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: WO 92/14818

; FILING DATE: 12-FEB-1992

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: US 07/827,685

; FILING DATE: 30-JAN-1992

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: US 07/657,584

; FILING DATE: 19-FEB-1991

; ATTORNEY/AGENT INFORMATION:

; NAME: Saliwanchik, David R.

; REGISTRATION NUMBER: 31,794

; REFERENCE/DOCKET NUMBER: UF114.C3

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: 904-375-8100

; TELEFAX: 904-372-5800

; INFORMATION FOR SEQ ID NO: 6:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 1003 amino acids

; TYPE: amino acid

; TOPOLOGY: linear

; MOLECULE TYPE: protein

; US-07-991-867B-6

Query Match 8.2%; Score 80.5; DB 1; Length 1003;
Best Local Similarity 24.3%; Pred. No. 2.3;
Matches 27; Conservative 16; Mismatches 39; Indels 29; Gaps 5;

QY 60 CLMPAVQ-----NWLVEVPTVSPNSRFTYHVSQ---MSLRPRVNYLQDFSQYQSLKFR 110
DB 441 CLKPKVPKRLWGLWILDCT-----SRFKHMDGSDLDLDVRLN----- 482

QY 111 PKGKTCPE-IPKGSKNTEVLVWEECVANSVILQNNFETIIDLGTSSRI 160
DB 483 -RNDICLKQAIKQHYTNVILLEYANTYPNCTLSLGNRRFNNVFMNDNKTI 532

RESULT 2
US-08-107-755A-6
; Sequence 6, Application US/08107755A
; Patent No. 5721352
; GENERAL INFORMATION:
; APPLICANT: Meyer, Richard W.
; APPLICANT: Hall, Richard L.
; APPLICANT: Gruidl, Michael E.
; TITLE OF INVENTION: NO. 5721352el Entomopoxvirus Expression System
; NUMBER OF SEQUENCES: 40
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: David R. Saliwanchik
; STREET: 2421 N.W. 41st Street, Suite A-1
; CITY: Gainesville
; STATE: Florida
; COUNTRY: U.S.A.
; ZIP: 32606
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/107,755A
; FILING DATE: 19-AUG-1993
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/827,658
; FILING DATE: 30-JAN-1992
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/657,584
; FILING DATE: 19-FEB-1991
; ATTORNEY/AGENT INFORMATION:
; NAME: Saliwanchik, David R.
; REGISTRATION NUMBER: 31,794
; REFERENCE/DOCKET NUMBER: UFI14.C2
; TELEPHONE: (904) 375-8100
; TELEFAX: (904) 372-5800
; INFORMATION FOR SEQ ID NO: 6:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1003 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-107-755A-6

Query Match 8.2%; Score 80.5; DB 1; Length 1003;
Best Local Similarity 24.3%; Pred. No. 2.3;
Matches 27; Conservative 16; Mismatches 39; Indels 29; Gaps 5;

QY 60 CLMPAVQ-----NWLVEVPTVSPNSRFTYHVSQ---MSLRPRVNYLQDFSQYQSLKFR 110
DB 441 CLKPKVPKRLWGLWILDCT-----SRFKHMDGSDLDLDVRLN----- 482

QY 111 PKGKTCPE-IPKGSKNTEVLVWEECVANSVILQNNFETIIDLGTSSRI 160
DB 483 -RNDICLKQAIKQHYTNVILLEYANTYPNCTLSLGNRRFNNVFMNDNKTI 532

RESULT 3
US-08-544-332-6
; Sequence 6, Application US/08544332
; Patent No. 5935777
; GENERAL INFORMATION:
; APPLICANT: Meyer, Richard W.
; APPLICANT: Hall, Richard L.
; APPLICANT: Gruidl, Michael E.
; TITLE OF INVENTION: NO. 5935777el Entomopoxvirus Expression System
; NUMBER OF SEQUENCES: 77
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Gerard H. Bencen
; STREET: 2421 N.W. 41st Street, Suite A-1
; CITY: Gainesville
; STATE: FL
; COUNTRY: USA
; ZIP: 32606
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/544,332
; FILING DATE:
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/991,867
; FILING DATE: 07-DEC-1992
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/107,755
; FILING DATE: 19-AUG-1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: WO 92/14818
; FILING DATE: 12-FEB-1992
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/827,685
; FILING DATE: 30-JAN-1992
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/657,584
; FILING DATE: 19-FEB-1991
; ATTORNEY/AGENT INFORMATION:
; NAME: Bencen, Gerard H.
; REGISTRATION NUMBER: 35,746
; REFERENCE/DOCKET NUMBER: UFI14.C4
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 904-375-8100
; TELEFAX: 904-372-5800
; INFORMATION FOR SEQ ID NO: 6:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1003 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-544-332-6

Query Match 8.2%; Score 80.5; DB 2; Length 1003;
Best Local Similarity 24.3%; Pred. No. 2.3;
Matches 27; Conservative 16; Mismatches 39; Indels 29; Gaps 5;

QY 60 CLMPAVQ-----NWLVEVPTVSPNSRFTYHVSQ---MSLRPRVNYLQDFSQYQSLKFR 110
DB 441 CLKPKVPKRLWGLWILDCT-----SRFKHMDGSDLDLDVRLN----- 482

QY 111 PKGKTCPE-IPKGSKNTEVLVWEECVANSVILQNNFETIIDLGTSSRI 160
DB 483 -RNDICLKQAIKQHYTNVILLEYANTYPNCTLSLGNRRFNNVFMNDNKTI 532

RESULT 4
US-09-370-861A-6
; Sequence 6, Application US/09370861A
; Patent No. 6410221

```
; GENERAL INFORMATION:
; APPLICANT: Moyer, Richard W.
; APPLICANT: Hall, Richard L.
; APPLICANT: Gruidl, Michael E.
; TITLE OF INVENTION: No. 6410221el Entomopoxvirus Expression System
; FILE REFERENCE: UFI14.C4.D1
; CURRENT FILING DATE: 1999-08-09
; PRIOR APPLICATION NUMBER: US 07/991,867
; PRIOR FILING DATE: 1992-12-07
; PRIOR APPLICATION NUMBER: US 08/107,755
; PRIOR FILING DATE: 1993-08-19
; PRIOR APPLICATION NUMBER: WO 92/14818
; PRIOR FILING DATE: 1992-02-12
; PRIOR APPLICATION NUMBER: US 07/827,685
; PRIOR FILING DATE: 1992-01-30
; PRIOR APPLICATION NUMBER: US 07/657,584
; PRIOR FILING DATE: 1991-02-19
; NUMBER OF SEQ ID NOS: 78
; SOFTWARE: Patent in version 3.1
; SEQ ID NO 6
; LENGTH: 1003
; TYPE: PRT
; ORGANISM: Anasacta moorei entomopoxvirus
US-09-370-861A-6

Query Match      8.2%; Score 80.5; DB 4; Length 1003;
Best Local Similarity 24.3%; Pred. No. 2, 3;
Matches 27; Conservative 16; Mismatches 39; Indels 29; Gaps 5;

QY 60 CLMPAVQ-----NMLVEPTVSPNSRFTYHVSQ---MSLRPRVNYLQDFSYQSLKFR 110
DB 441 CLKPRVPRNLRUWGMILDCDT---SRFTKHVADGSDDLDLDLRLN----- 482
QY 111 PKGKTCPEK-IPKSGKNTVELVWEECVANSVVILQNNNEFGTIDLGTSRSI 160
DB 483 -RNDICLKAIQHNTVILLEYANTYNCILSLGNRFNNVFDVNDKTI 532

RESULT 5
US-08-896-449A-2
; Sequence 2, Application US/08996449A
; Patent No. 6040143
; GENERAL INFORMATION:
; APPLICANT: Venta, Patrick J
; APPLICANT: Yuzbasiyan-Gurkan, Vilma
; APPLICANT: Schall, William D
; APPLICANT: Brewer, George J
; TITLE OF INVENTION: DNA ENCODING CANINE VON WILLEBRAND
; TITLE OF INVENTION: FACTOR AND METHODS OF USE
; NUMBER OF SEQUENCES: 11
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Harness, Dickey & Pierce, P.L.C.
; STREET: 5445 Corporate Drive
; CITY: Troy
; STATE: Michigan
; COUNTRY: USA
; ZIP: 48098
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/896,449A
; FILING DATE: 18-JUL-1997
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Smith, DeAnn F.
; REFERENCE/DOCKET NUMBER: 2115-001226
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 248-641-1600
; TELEFAX: 248-641-0270
```

```
; TELEX: 287637
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2813 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-896-449A-2

Query Match      8.2%; Score 80.5; DB 3; Length 2813;
Best Local Similarity 21.8%; Pred. No. 10;
Matches 46; Conservative 29; Mismatches 73; Indels 63; Gaps 8;

QY 26 TDDRCPAKPEEGMINIS---IGYHYPPIC-----LGRAPGCLMPAVQNWLVPT 74
DB 859 TDHVCDATCSAIGMAHYLTFDGLKYLFFGECQYLVQYCGSNPGLRLILVGNEGCSYPS 918
QY 75 VSPNSRFTYHVMVSGMSLRPRVNYLQDFSYQSLKFRPKGKTCPEKIPKSGKNTVEL--- 130
DB 919 VKCKKRVTI-LVEG-----GEIELFDGEVNVKPKMKDETHFEVVESQYVILLGKAL 970
QY 131 --VWEECVANSVVI-----LQNNNEFGTI-----IDLGTSRSILPQ 163
DB 971 SVVWDHRLSISVTLKRTYQEQVCGVGLGNPDGIGNDFTSSSLQIEEDPVDVFGNSKWNPK 1030
QY 164 LLRT-----NSVWSKCTSESSCR 181
DB 1031 CADTKKVPDLDSPAVCHNNIMKQTMVDSSCR 1061

RESULT 6
US-09-132-652-2
; Sequence 2, Application US/09132652
; Patent No. 6074832
; GENERAL INFORMATION:
; APPLICANT: Venta, Patrick J
; APPLICANT: Yuzbasiyan-Gurkan, Vilma
; APPLICANT: Schall, William D
; APPLICANT: Brewer, George J
; APPLICANT: Duffendeck, John
; TITLE OF INVENTION: DNA ENCODING CANINE VON WILLEBRAND FACTOR AND METHODS
; TITLE OF INVENTION: OF USE
; FILE REFERENCE: 2115S-001226CPB
; CURRENT APPLICATION NUMBER: US/09/132,652
; CURRENT FILING DATE: 1998-08-11
; EARLIER APPLICATION NUMBER: 08/896,449
; EARLIER FILING DATE: 1997-07-18
; NUMBER OF SEQ ID NOS: 29
; SOFTWARE: Patent in Ver. 2.0
; SEQ ID NO 2
; LENGTH: 2813
; TYPE: PRT
; ORGANISM: Canis familiaris
US-09-132-652-2

Query Match      8.2%; Score 80.5; DB 3; Length 2813;
Best Local Similarity 21.8%; Pred. No. 10;
Matches 46; Conservative 29; Mismatches 73; Indels 63; Gaps 8;

QY 26 TDDRCPAKPEEGMINIS---IGYHYPPIC-----LGRAPGCLMPAVQNWLVPT 74
DB 859 TDHVCDATCSAIGMAHYLTFDGLKYLFFGECQYLVQYCGSNPGLRLILVGNEGCSYPS 918
QY 75 VSPNSRFTYHVMVSGMSLRPRVNYLQDFSYQSLKFRPKGKTCPEKIPKSGKNTVEL--- 130
DB 919 VKCKKRVTI-LVEG-----GEIELFDGEVNVKPKMKDETHFEVVESQYVILLGKAL 970
QY 131 --VWEECVANSVVI-----LQNNNEFGTI-----IDLGTSRSILPQ 163
DB 971 SVVWDHRLSISVTLKRTYQEQVCGVGLGNPDGIGNDFTSSSLQIEEDPVDVFGNSKWNPK 1030
QY 164 LLRT-----NSVWSKCTSESSCR 181
```


TITLE OF INVENTION: Transcription and Methods of Use Therefor
NUMBER OF SEQUENCES: 37
CORRESPONDENCE ADDRESS:
ADDRESSEE: Hamilton, Brook, Smith & Reynolds, P.C.
STREET: Two Militia Drive
CITY: Lexington
STATE: Massachusetts
COUNTRY: USA
ZIP: 02173

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA: US/08/521,872
FILING DATE: 31-AUG-1995
CLASSIFICATION: 436
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/218,265
FILING DATE: 25-MAR-1994
ATTORNEY/AGENT INFORMATION:
NAME: Granahan, Patricia
REGISTRATION NUMBER: 32,227
REFERENCE/DOCKET NUMBER: WHI94-03A
TELEPHONE: 617-861-6240
TELEFAX: 617-861-9540
INFORMATION FOR SEQ ID NO: 14:
SEQUENCE CHARACTERISTICS:
LENGTH: 1420 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-521-872-14

Query Match 7.5%; Score 73.5; DB 3; Length 1420;
Best Local Similarity 23.0%; Pred. No. 26;
Matches 47; Conservative 29; Mismatches 77; Indels 51; Gaps 11;

QY	16	VNDVSVVPGTDRDRCAPKEPEG-----MMINISIGYHYP 50
DB	69	INDDPVPTPAIEHKVPSPDKIGTTADYSKPNLPPHYALFKALRRKIYNLALGSHNK 128
QY	51	PICLGRAPGCL-MPAVQNWLVFV-PTVSPNSRFTYHM-VSGMSLRP--RVNYLQDFSYOR 105
DB	129	LQIFGNA--CISLSGVNLYVQLEPHLFVNGDLTVSLCAKNMGLVPMKEENLESFSLKH 186
QY	106	SLKFRPKG-----KTCPEK--IPKGSKNTVLVWEECVANSVVLONNE----FGTIIDL 154
DB	187	ALYLAPSGIRMLAPASKQGYLITPPKHTELLTLTSLVSHG-INLQNKNLKWAIVVPDL 245
QY	155	G-----TSRSILPQLLRNSW 171
DB	246	GHNLGHTPTIASYLTPLLEAKLV 269

RESULT 10
US-08-590-399-14
Sequence 14, Application US/08590399
Patent No. 6214588
GENERAL INFORMATION:
APPLICANT: Young, Richard A.
APPLICANT: Koleske, Anthony J.
APPLICANT: Thompson, Craig M.
APPLICANT: Chao, David M.
TITLE OF INVENTION: No. 6214588el Factors Which Modify Gene
NUMBER OF SEQUENCES: 39
CORRESPONDENCE ADDRESS:
ADDRESSEE: Hamilton, Brook, Smith & Reynolds, P.C.
STREET: Two Militia Drive
CITY: Lexington

STATE: Massachusetts
COUNTRY: USA
ZIP: 02173
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA: US/08/590,399
FILING DATE: 26-JAN-1996
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/540,804
FILING DATE: 11-OCT-1995
APPLICATION NUMBER: US 08/521,872
FILING DATE: 31-AUG-1995
APPLICATION DATA:
APPLICATION NUMBER: US 08/218,265
FILING DATE: 25-MAR-1994
ATTORNEY/AGENT INFORMATION:
NAME: Granahan, Patricia
REGISTRATION NUMBER: 32,227
REFERENCE/DOCKET NUMBER: WHI94-03A3
TELEPHONE: 617-861-6240
TELEFAX: 617-861-9540
INFORMATION FOR SEQ ID NO: 14:
SEQUENCE CHARACTERISTICS:
LENGTH: 1420 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-590-399-14

Query Match 7.5%; Score 73.5; DB 3; Length 1420;
Best Local Similarity 23.0%; Pred. No. 26;
Matches 47; Conservative 29; Mismatches 77; Indels 51; Gaps 11;

QY	16	VNDVSVVPGTDRDRCAPKEPEG-----MMINISIGYHYP 50
DB	69	INDDPVPTPAIEHKVPSPDKIGTTADYSKPNLPPHYALFKALRRKIYNLALGSHNK 128
QY	51	PICLGRAPGCL-MPAVQNWLVFV-PTVSPNSRFTYHM-VSGMSLRP--RVNYLQDFSYOR 105
DB	129	LQIFGNA--CISLSGVNLYVQLEPHLFVNGDLTVSLCAKNMGLVPMKEENLESFSLKH 186
QY	106	SLKFRPKG-----KTCPEK--IPKGSKNTVLVWEECVANSVVLONNE----FGTIIDL 154
DB	187	ALYLAPSGIRMLAPASKQGYLITPPKHTELLTLTSLVSHG-INLQNKNLKWAIVVPDL 245
QY	155	G-----TSRSILPQLLRNSW 171
DB	246	GHNLGHTPTIASYLTPLLEAKLV 269

RESULT 11
US-09-561-709B-13
Sequence 13, Application US/09561709B
Patent No. 6682911
GENERAL INFORMATION:
APPLICANT: Burgeson, Robert
APPLICANT: Champliand, Marie-France
APPLICANT: Olson, Pamela
APPLICANT: Koch, Manuel
APPLICANT: Brunken, William
TITLE OF INVENTION: LAMININS AND USES THEREOF
FILE REFERENCE: 10287-060001
CURRENT APPLICATION NUMBER: US/09/561,709B
CURRENT FILING DATE: 2000-05-01
PRIOR APPLICATION NUMBER: US 09/168,949
PRIOR FILING DATE: 1998-10-09

;; PRIOR APPLICATION NUMBER: US 60/061,609
;; PRIOR FILING DATE: 1997-10-10
;; NUMBER OF SEQ ID NOS: 13
;; SOFTWARE: FastSeq for Windows Version 4.0
;; SEQ ID NO 13
;; LENGTH: 1342
;; TYPE: PRT
;; ORGANISM: Artificial Sequence
;; FEATURE:
;; OTHER INFORMATION: Consensus sequence
US-09-561-709B-13

Query Match
Best Local Similarity 7.4%; Score 72; DB 4; Length 1342;
Matches 45; Conservative 25; Mismatches 87; Indels 28; Gaps 10;
QY 11 PIEVYVDSVWVPGTDDRCAPKEEEMMINISIGYHPPICLGRAPGLMPAVQNLV 70
Db 413 PCDCDIGGASVCSFKNGQCECRP-HTGRSCSEAPGYFFAPLYEAEA-TPAVH--VV 468
QY 71 EV---PTVSPNSRFTYHVMGMSLRPRVNY-LQDFSYQSLKFR-----PKGKTPKEI 120
Db 469 EPVCGNWTGPGFR-----VLGAGLFAVNNIPFPDIIEQSADMTVQIVVPGGSHCPK 523
QY 121 PK--GSKNTEVLWEEC---VANSWILQNNFETIIDLGTSTSLPQLLRITNSVVSCKT 175
Db 524 PQSPALPATRMLLTPCLEPVOYIDYSQQGESHASLD---SLLIPQINSLENFCSKQD 579
QY 176 SESSC 180
Db 580 LDQNC 584

RESULT 12
US-09-668-113A-8
; Sequence 8, Application US/09668113A
; Patent No. 6410703

;; GENERAL INFORMATION:
;; APPLICANT: Russo, Thomas A.
;; TITLE OF INVENTION: Identification of A Vaccine Candidate from an
;; TITLE OF INVENTION: Extraintestinal Strain of E. coli
;; FILE REFERENCE: 11520.0214
;; CURRENT APPLICATION NUMBER: US/09/668,113A
;; CURRENT FILING DATE: 2000-09-22
;; NUMBER OF SEQ ID NOS: 10
;; SEQ ID NO 8

;; LENGTH: 725
;; TYPE: PRT
;; ORGANISM: Escherichia coli
;; FEATURE:
US-09-668-113A-8

Query Match
Best Local Similarity 7.3%; Score 71; DB 4; Length 725;
Matches 31; Conservative 15; Mismatches 41; Indels 40; Gaps 6;
QY 65 VQNLVEVP--TVSPNSRFTYHVMGMSLRPRVNYLQDFS-----YQ 104
Db 427 IENIEPVGQTNIIPIGLRFDYLSDSGGNFSPLNLSQELGDFYKVKAGVARTFKAPNLYQ 486
QY 105 RSLKF--RPKGKTPCKEIPKG-----SKNTEV---LWNECVANSVVILQN 145
Db 487 SSBGYLLYKNGCGPKDITSGGCGYLLGNKDLDPISVNKEIGLETFWEDYHA-SVTYFRN 545
QY 146 NEFGTII 152
Db 546 DYQNKIV 552

RESULT 13
US-09-252-991A-17508
; Sequence 17508, Application US/09252991A
; Patent No. 6551795

;; GENERAL INFORMATION:
;; APPLICANT: Marc J. Rubenfield et al.
;; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
;; TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
;; FILE REFERENCE: 107196.1136
;; CURRENT APPLICATION NUMBER: US/09/252,991A
;; CURRENT FILING DATE: 1999-02-18
;; PRIOR APPLICATION NUMBER: US 60/074,788
;; PRIOR FILING DATE: 1998-02-18
;; PRIOR APPLICATION NUMBER: US 60/094,190
;; PRIOR FILING DATE: 1998-07-27
;; NUMBER OF SEQ ID NOS: 33142
;; SEQ ID NO 17508
;; LENGTH: 1064
;; TYPE: PRT
;; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-17508

Query Match
Best Local Similarity 7.2%; Score 70.5; DB 4; Length 1064;
Matches 26; Conservative 18; Mismatches 47; Indels 33; Gaps 4;
QY 29 RCPAKP--EEEGMINIS--IGYHPPICLGR-----56
Db 915 RCSAAGWRADGRVVEAKQPFGRYNSDCRGARFRPLADGSGIPQVNVLTDFDEV 974
QY 57 APGCLMPAVQNLVVEVPTVSPNSRFTYH--VSGMSLRPRVNYLQDFSYQSLKFRPKGT 115
Db 975 GPGLPREAYNDFILERFAAGRDNVYTHAEVEGULLAPAFRELLRAERRGIRFPLGEL 1034
QY 116 CPKE 119
Db 1035 LPDD 1038

RESULT 14
US-09-690-454-150
; Sequence 150, Application US/09690454
; Patent No. 6531447
;; GENERAL INFORMATION:
;; APPLICANT: Steven M. Ruben, et al.
;; TITLE OF INVENTION: 32 Human Secreted Proteins
;; FILE REFERENCE: P2006P1
;; CURRENT APPLICATION NUMBER: US/09/690,454
;; CURRENT FILING DATE: 2000-10-18

;; PRIOR APPLICATION NUMBER: 09/189,144
;; PRIOR FILING DATE: 1998-11-10
;; PRIOR APPLICATION NUMBER: 60/044,039
;; PRIOR FILING DATE: May 30, 1997
;; PRIOR APPLICATION NUMBER: 60/048,093
;; PRIOR FILING DATE: May 30, 1997
;; PRIOR APPLICATION NUMBER: 60/048,190
;; PRIOR FILING DATE: May 30, 1997
;; PRIOR APPLICATION NUMBER: 60/050,935
;; PRIOR FILING DATE: May 30, 1997
;; PRIOR APPLICATION NUMBER: 60/048,101
;; PRIOR FILING DATE: May 30, 1997
;; PRIOR APPLICATION NUMBER: 60/048,356
;; PRIOR FILING DATE: May 30, 1997
;; PRIOR APPLICATION NUMBER: 60/056,250
;; PRIOR FILING DATE: August 29, 1997
;; PRIOR APPLICATION NUMBER: 60/056,296
;; PRIOR FILING DATE: August 29, 1997
;; PRIOR APPLICATION NUMBER: 60/056,293
;; PRIOR FILING DATE: August 29, 1997
;; NUMBER OF SEQ ID NOS: 229
;; SOFTWARE: PatentIn Ver. 2.0
;; SEQ ID NO 150
;; LENGTH: 151
;; TYPE: PRT
;; ORGANISM: Homo sapiens
;; FEATURE:
;; NAME/KEY: SITE

LOCATION: (123)
OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
US-09-690-454-150

Query Match
Best Local Similarity 7.2%; Score 70; DB 4; Length 151;
Matches 35; Conservative 13; Mismatches 45; Indels 44; Gaps 8;
QY 23 PGPTDDRCAPKEPEGMIN-----ISIGYH-----YPPICLGRAPGCLMPAYQNWLVVEV 72
DB 6 PGLTS---ALXPQMEGLVGGGFSKGRHPAGWVLPQCLLISPTLSFPPACGLVPS 62
QY 73 PTVSENGFTVHVSGLSRVNVYLODFYSQSLKRP--KGTCTPK-----EIPKGSK 125
DB 63 PSLLP-AVSSVHLPLGRCL-----IRPAFKIKVCSKLTWCSLPSPR 104
QY 126 NTEVLWNECVANSVVI 142
DB 105 -----WRCCHGNAVAL 115

RESULT 15
US-07-930-686-12
Sequence 12, Application US/07930686
Patent No. 5525508
GENERAL INFORMATION:
APPLICANT: Sharp, Phillip J
APPLICANT: Wagland, Barry M
APPLICANT: Cobon, Gary S
TITLE OF INVENTION: Nematode Vaccine
NUMBER OF SEQUENCES: 12
CORRESPONDENCE ADDRESS:
ADDRESS: suite 500, 1800 Diagonal Road
CITY: Alexandria
STATE: Virginia
COUNTRY: United States of America
ZIP: 22313-0259
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/07/930,686
FILING DATE: 19921006
CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER: AU PK4486
FILING DATE: 06-FEB-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/AU92/00040
FILING DATE: 06-FEB-1992
ATTORNEY/AGENT INFORMATION:
NAME: Bent, Stephen A
REGISTRATION NUMBER: 29,768
TELECOMMUNICATION INFORMATION:
TELEPHONE: (703) 836-9300
TELEFAX: (703) 683-4109
TELEX: 899149
INFORMATION FOR SEQ ID NO: 12:
SEQUENCE CHARACTERISTICS:
LENGTH: 440 amino acids
TYPE: AMINO ACID
TOPOLOGY: linear
MOLECULE TYPE: protein
US-07-930-686-12

Query Match
Best Local Similarity 7.1%; Score 69.5; DB 1; Length 440;
Matches 42; Conservative 25; Mismatches 59; Indels 61; Gaps 11;
QY 10 NPFEVYVNDVSVVPGPTDDRCP-----AKPEEGMINISIGYHYPPICLGRAPCLMP 63

DB 177 NRINHVIYD-IGDPCITTDQCTGCTCSKDE-----ALCIPPGYTTVMP 220
QY 64 AVQNWLVVEPTVSPNSRFTYH-----MVSGNSLRPRVNVYLODFYSQSL----- 107
DB 221 PT-----TEKETTTTPK-----IYHPCGMCPENNINGMTDEARQMFVDKNEYRSLAKGLAHNN 273
QY 108 --XFRPKGKTCPKKEIPKGSKNTEV-----LVW-BECVANSVWILONNEFGTIIDLGTSRSI 160
DB 274 LGGFAPKA-----ARMKVSYNCEIEANRVWEAKDCTLGYNVAQNQWGYNV-----HSL 324
QY 161 LPQLLRT 167
DB 325 LPHINKT 331

Search completed: May 5, 2004, 15:55:09
Job time : 15.0833 secs

GenCore version 5.1.6
Copyright (c) 1993 - 2004 Compugen Ltd.
OM protein - protein search, using sw model
Run on: May 5, 2004, 15:53:16 ; Search time 32.0233 Seconds
(without alignments)
1324.350 Million cell updates/sec
Title: US-09-490-700-36
Perfect score: 840
Sequence: 1 MVTPTWMDNPIEVYVNDVSV.....ECVANSVILQNNRFGTIID 153
Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5
Searched: 1138120 seqs, 277189581 residues
Total number of hits satisfying chosen parameters: 1138120
Minimum DB seq length: 0
Maximum DB seq length: 2000000000
Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries
Database : Published Applications AA:*
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2: /cgn2_6/ptodata/2/pubpaa/PCT_NEW_PUB.pep.*
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17: /cgn2_6/ptodata/2/pubpaa/US60_NEW_PUB.pep.*
18: /cgn2_6/ptodata/2/pubpaa/US60_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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3	840	100.0	560	15	US-10-233-958-9
4	840	100.0	560	15	US-10-233-958-10
5	832	99.0	560	15	US-10-233-958-1
6	831	98.9	560	15	US-10-233-958-8
7	220	26.2	48	9	US-09-864-761-33768
8	184.5	22.0	146	12	US-10-243-552-540
9	85	10.1	15	14	US-10-236-091-2
10	84	10.0	15	14	US-10-236-091-3
11	83.5	9.9	1008	12	US-10-276-774-1897
12	81	9.6	15	14	US-10-236-091-4
13	81	9.6	164	15	US-10-104-047-2900
14	77	9.2	203	12	US-10-424-599-154998
15	75	8.9	475	12	US-10-424-599-271886

16	75	8.9	1078	12	US-10-170-385-295	Sequence 295, App
17	72.5	8.6	602	15	US-10-260-937-52	Sequence 52, Appl
18	72	8.6	194	15	US-10-264-049-2482	Sequence 2482, Ap
19	72	8.6	341	14	US-10-080-170-238	Sequence 238, App
20	72	8.6	2469	15	US-10-190-115-2	Sequence 2, Appl
21	72	8.6	2469	15	US-10-369-072-2	Sequence 2, Appl
22	71.5	8.5	430	14	US-10-043-487-265	Sequence 2, Appl
23	71.5	8.5	481	10	US-09-759-967-21	Sequence 21, Appl
24	71.5	8.5	481	12	US-10-424-599-171702	Sequence 171702,
25	71.5	8.5	488	12	US-10-425-114-43865	Sequence 43865, A
26	71.5	8.5	489	12	US-10-425-114-45639	Sequence 45639, A
27	71.5	8.5	491	12	US-10-425-114-44847	Sequence 44047, A
28	71.5	8.5	492	12	US-10-425-114-43836	Sequence 43836, A
29	71.5	8.5	492	12	US-10-425-114-46294	Sequence 46294, A
30	71.5	8.5	1222	14	US-10-060-036-74	Sequence 74, Appl
31	71.5	8.5	1222	14	US-10-060-036-160	Sequence 160, App
32	71	8.5	148	12	US-10-276-774-1755	Sequence 1755, Ap
33	71	8.5	251	12	US-10-282-122A-43662	Sequence 43662, A
34	71	8.5	652	14	US-10-156-761-14695	Sequence 14695, A
35	70	8.3	151	14	US-10-062-831-150	Sequence 150, App
36	70	8.3	151	14	US-10-062-599-150	Sequence 150, App
37	69.5	8.3	245	12	US-10-424-599-245035	Sequence 245035,
38	69.5	8.3	1481	14	US-10-050-763-1	Sequence 1, Appl
39	69	8.2	468	10	US-09-809-391-387	Sequence 387, App
40	69	8.2	468	10	US-09-882-171-387	Sequence 387, App
41	69	8.2	468	12	US-10-164-861-387	Sequence 387, App
42	69	8.2	506	14	US-10-198-070-35	Sequence 35, Appl
43	68.5	8.2	549	15	US-10-369-493-23594	Sequence 23594, A
44	68.5	8.2	844	14	US-10-156-761-7663	Sequence 7663, Ap
45	68	8.1	142	9	US-09-996-140-45	Sequence 45, Appl

ALIGNMENTS

RESULT 1

US-10-236-091-1
; Sequence 1, Application US/10236091
; Publication No. US20030162263A1
; GENERAL INFORMATION:
; APPLICANT: Dupuis, Marc
; TITLE OF INVENTION: Peptides Derived from the Superantigen (SAG) ENV
; TITLE OF INVENTION: Protein of HERV-K18 and their Use in Obtaining
; TITLE OF INVENTION: SAG-Inhibitory Antibodies and in Vaccination Against
; TITLE OF INVENTION: SAG
; FILE REFERENCE: 23135-506
; CURRENT APPLICATION NUMBER: US/10/236,091
; PRIOR FILING DATE: 2002-09-06
; PRIOR APPLICATION NUMBER: 60/317,703
; PRIOR FILING DATE: 2001-09-06
; PRIOR APPLICATION NUMBER: 60/317,704
; PRIOR FILING DATE: 2001-09-06
; NUMBER OF SEQ ID NOS: 5
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1
; LENGTH: 153
; TYPE: PRT
; ORGANISM: Human endogenous retrovirus
US-10-236-091-1

Query Match	100.0%;	Score 840;	DB 14;	Length 153;
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QY	1	MVTPTWMDNPIEVYVNDVSVVPGTDDRCAPAKPEEGMMINISIGYHYPPICLGRAPGC	60	
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Db 121 PKGSKNTEVLWEECVANSVILQNNFETIID 153
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RESULT 2
US-10-233-958-7
; Sequence 7, Application US/10233958
; Publication No. US20040009468A1
; GENERAL INFORMATION:
; APPLICANT: Mach, Bernard
; TITLE OF INVENTION: Allelic Variants of HER V-K18, Method for the Analysis
; TITLE OF INVENTION: Thereof and Use in the Determination of Genetic
; TITLE OF INVENTION: Predisposition for Disorders Involving the HERV-K18
; TITLE OF INVENTION: Provirus
; FILE REFERENCE: 23135-504
; CURRENT APPLICATION NUMBER: US/10/233,958
; CURRENT FILING DATE: 2002-09-03
; PRIOR APPLICATION NUMBER: 60/316,513
; PRIOR FILING DATE: 2001-08-31
; PRIOR APPLICATION NUMBER: 60/316,522
; PRIOR FILING DATE: 2001-08-31
; NUMBER OF SEQ ID NOS: 46
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 7
; LENGTH: 153
; TYPE: PRT
; ORGANISM: Human endogenous retrovirus
US-10-233-958-7

Query Match 100.0%; Score 840; DB 15; Length 153;
Best Local Similarity 100.0%; Pred. No. 4.4e-87;
Matches 153; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 61 LMPAVQNWLVEVPTVSPNSRFTYHMVSGMSLRPRVNYLQDFSYQSLKFRPKGKTCPKKEI 120
Db 61 LMPAVQNWLVEVPTVSPNSRFTYHMVSGMSLRPRVNYLQDFSYQSLKFRPKGKTCPKKEI 120
QY 121 PKGSKNTEVLWEECVANSVILQNNFETIID 153
Db 121 PKGSKNTEVLWEECVANSVILQNNFETIID 153

RESULT 3
US-10-233-958-9
; Sequence 9, Application US/10233958
; Publication No. US20040009468A1
; GENERAL INFORMATION:
; APPLICANT: Mach, Bernard
; TITLE OF INVENTION: Allelic Variants of HER V-K18, Method for the Analysis
; TITLE OF INVENTION: Thereof and Use in the Determination of Genetic
; TITLE OF INVENTION: Predisposition for Disorders Involving the HERV-K18
; TITLE OF INVENTION: Provirus
; FILE REFERENCE: 23135-504
; CURRENT APPLICATION NUMBER: US/10/233,958
; CURRENT FILING DATE: 2002-09-03
; PRIOR APPLICATION NUMBER: 60/316,513
; PRIOR FILING DATE: 2001-08-31
; PRIOR APPLICATION NUMBER: 60/316,522
; PRIOR FILING DATE: 2001-08-31
; NUMBER OF SEQ ID NOS: 46
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 9
; LENGTH: 560
; TYPE: PRT
; ORGANISM: Human endogenous retrovirus
US-10-233-958-9

Query Match 100.0%; Score 840; DB 15; Length 153;
Best Local Similarity 100.0%; Pred. No. 4.4e-87;
Matches 153; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 121 PKGSKNTEVLWEECVANSVILQNNFETIID 153
Db 121 PKGSKNTEVLWEECVANSVILQNNFETIID 153

RESULT 4
US-10-233-958-10
; Sequence 10, Application US/10233958
; Publication No. US20040009468A1
; GENERAL INFORMATION:
; APPLICANT: Mach, Bernard
; TITLE OF INVENTION: Allelic Variants of HER V-K18, Method for the Analysis
; TITLE OF INVENTION: Thereof and Use in the Determination of Genetic
; TITLE OF INVENTION: Predisposition for Disorders Involving the HERV-K18
; TITLE OF INVENTION: Provirus
; FILE REFERENCE: 23135-504
; CURRENT APPLICATION NUMBER: US/10/233,958
; CURRENT FILING DATE: 2002-09-03
; PRIOR APPLICATION NUMBER: 60/316,513
; PRIOR FILING DATE: 2001-08-31
; PRIOR APPLICATION NUMBER: 60/316,522
; PRIOR FILING DATE: 2001-08-31
; NUMBER OF SEQ ID NOS: 46
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 10
; LENGTH: 560
; TYPE: PRT
; ORGANISM: Human endogenous retrovirus
US-10-233-958-10

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Best Local Similarity 100.0%; Pred. No. 2.5e-86;
Matches 153; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 121 PKGSKNTEVLWEECVANSVILQNNFETIID 153
Db 121 PKGSKNTEVLWEECVANSVILQNNFETIID 153

RESULT 5
US-10-233-958-11
; Sequence 11, Application US/10233958
; Publication No. US20040009468A1
; GENERAL INFORMATION:
; APPLICANT: Mach, Bernard
; TITLE OF INVENTION: Allelic Variants of HER V-K18, Method for the Analysis
; TITLE OF INVENTION: Thereof and Use in the Determination of Genetic
; TITLE OF INVENTION: Predisposition for Disorders Involving the HERV-K18
; TITLE OF INVENTION: Provirus
; FILE REFERENCE: 23135-504
; CURRENT APPLICATION NUMBER: US/10/233,958
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; CURRENT FILING DATE: 2002-09-03
; PRIOR APPLICATION NUMBER: 60/316,513
; PRIOR FILING DATE: 2001-08-31
; PRIOR APPLICATION NUMBER: 60/316,522
; PRIOR FILING DATE: 2001-08-31
; NUMBER OF SEQ ID NOS: 46
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1
; LENGTH: 560
; TYPE: PRT
; ORGANISM: Human endogenous retrovirus
; FEATURE:
; NAME/KEY: VARIANT
; LOCATION: (97)
; OTHER INFORMATION: Where Xaa is Tyr, Cys, Phe or Ser
; FEATURE:
; NAME/KEY: VARIANT
; LOCATION: (154)
; OTHER INFORMATION: Where Xaa is Trp, Leu, Ser, or Stop
; FEATURE:
; NAME/KEY: VARIANT
; LOCATION: (272)
; OTHER INFORMATION: Where Xaa is Val, Ile or Leu
; FEATURE:
; NAME/KEY: VARIANT
; LOCATION: (348)
; OTHER INFORMATION: Where Xaa is Val, Ile, Leu or Phe
; FEATURE:
; NAME/KEY: VARIANT
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; OTHER INFORMATION: Where Xaa is Val, Ile, Leu or Phe
; US-10-233-958-1

Query Match          99.0%; Score 831; DB 15; Length 560;
Best Local Similarity 99.3%; Pred. No. 2e-85;
Matches 152; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

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Db 1 MVTPTWMDNPIEVYVNDVSVVPGPTDDRCPCAKPEEGMMINISIGYHYPPICLGRAPGC 60
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Db 61 LMPAVQNLVVEPTVSPNSRFTYHVMVSGMSLRPRVNYLQDFSYORSLSKFRPKGKTCPEI 120
QY 121 PKGSKNTEVLWEECVANSVVILQNNFETIID 153
Db 121 PKGSKNTEVLWEECVANSVVILQNNFETIID 153

RESULT 7
US-09-864-761-33768
; Sequence 33768, Application US/09864761
; Patent No. US20020048763A1
; GENERAL INFORMATION:
; APPLICANT: Penn, Sharron G.
; APPLICANT: Rank, David R.
; APPLICANT: Hanzel, David K.
; APPLICANT: Chen, Wensheng
; TITLE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USEFUL FOR
; FILE REFERENCE: Aeomica-X-1
; CURRENT APPLICATION NUMBER: US/09/864,761
; CURRENT FILING DATE: 2001-05-23
; PRIOR APPLICATION NUMBER: US 60/180,312
; PRIOR FILING DATE: 2000-02-04
; PRIOR APPLICATION NUMBER: US 60/207,456
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: US 09/632,366
; PRIOR FILING DATE: 2000-08-03
; PRIOR APPLICATION NUMBER: GB 24263.6
; PRIOR FILING DATE: 2000-10-04
; PRIOR APPLICATION NUMBER: US 60/236,359
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: PCT/US01/00666
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00667
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00664
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00669
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00665
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00668
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00663
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00662
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00661
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00670
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: US 60/234,687
; PRIOR FILING DATE: 2000-09-21
; PRIOR APPLICATION NUMBER: US 09/608,408
; PRIOR FILING DATE: 2000-06-30
; PRIOR APPLICATION NUMBER: US 09/774,203
; PRIOR FILING DATE: 2001-01-29
; NUMBER OF SEQ ID NOS: 49117
; SOFTWARE: Annomax Sequence Listing Engine vers. 1.1
; SEQ ID NO 33768

; ORGANISM: Human endogenous retrovirus
US-10-233-958-8
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Best Local Similarity 99.3%; Pred. No. 2.6e-85;
Matches 152; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

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Db 1 MVTPTWMDNPIEVYVNDVSVVPGPTDDRCPCAKPEEGMMINISIGYHYPPICLGRAPGC 60
QY 61 LMPAVQNLVVEPTVSPNSRFTYHVMVSGMSLRPRVNYLQDFSYORSLSKFRPKGKTCPEI 120
Db 61 LMPAVQNLVVEPTVSPNSRFTYHVMVSGMSLRPRVNYLQDFSYORSLSKFRPKGKTCPEI 120
QY 121 PKGSKNTEVLWEECVANSVVILQNNFETIID 153
Db 121 PKGSKNTEVLWEECVANSVVILQNNFETIID 153

RESULT 7
US-09-864-761-33768
; Sequence 33768, Application US/09864761
; Patent No. US20020048763A1
; GENERAL INFORMATION:
; APPLICANT: Penn, Sharron G.
; APPLICANT: Rank, David R.
; APPLICANT: Hanzel, David K.
; APPLICANT: Chen, Wensheng
; TITLE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USEFUL FOR
; FILE REFERENCE: Aeomica-X-1
; CURRENT APPLICATION NUMBER: US/09/864,761
; CURRENT FILING DATE: 2001-05-23
; PRIOR APPLICATION NUMBER: US 60/180,312
; PRIOR FILING DATE: 2000-02-04
; PRIOR APPLICATION NUMBER: US 60/207,456
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: US 09/632,366
; PRIOR FILING DATE: 2000-08-03
; PRIOR APPLICATION NUMBER: GB 24263.6
; PRIOR FILING DATE: 2000-10-04
; PRIOR APPLICATION NUMBER: US 60/236,359
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; PRIOR APPLICATION NUMBER: PCT/US01/00666
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00667
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00664
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00669
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00665
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00668
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00663
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00662
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00661
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00670
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: US 60/234,687
; PRIOR FILING DATE: 2000-09-21
; PRIOR APPLICATION NUMBER: US 09/608,408
; PRIOR FILING DATE: 2000-06-30
; PRIOR APPLICATION NUMBER: US 09/774,203
; PRIOR FILING DATE: 2001-01-29
; NUMBER OF SEQ ID NOS: 49117
; SOFTWARE: Annomax Sequence Listing Engine vers. 1.1
; SEQ ID NO 33768
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; LENGTH: 48
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; OTHER INFORMATION: MAP TO ALO35086.12
; OTHER INFORMATION: EXPRESSED IN PLACENTA, SIGNAL = 0.98
; OTHER INFORMATION: EXPRESSED IN LUNG, SIGNAL = 1.1
; OTHER INFORMATION: EXPRESSED IN HELA, SIGNAL = 1.5
; OTHER INFORMATION: EXPRESSED IN ADULT LIVER, SIGNAL = 1.1
; OTHER INFORMATION: EXPRESSED IN BT474, SIGNAL = 2
; OTHER INFORMATION: EXPRESSED IN BONE MARROW, SIGNAL = 1.7
; OTHER INFORMATION: EXPRESSED IN HBL100, SIGNAL = 1.2
; OTHER INFORMATION: EXPRESSED IN FETAL LIVER, SIGNAL = 1.1
; OTHER INFORMATION: EXPRESSED IN BRAIN, SIGNAL = 1.7
; OTHER INFORMATION: EXPRESSED IN HEART, SIGNAL = 1.4
; OTHER INFORMATION: EST HUMAN HIT: AA668498.1, EVALUE 7.00e-16
; OTHER INFORMATION: SWISSPROT HIT: P10267, EVALUE 6.00e-19
US-09-864-761-33768

Query Match          26.2%; Score 220; DB 9; Length 48;
Best Local Similarity 93.3%; Pred. No. 2.3e-17;
Matches 40; Conservative 1; Mismatches 7; Indels 0; Gaps 0;

QY 47 YHYPICLGRAPCLMPAVQNLVVEPTVSPNSRFTYHVMGMSLRPQ 94
Db 1 YCVPPICLGRAPCLMPETTONLWLVETVTSATSGFTYHRVSGMSLRPQ 48

RESULT 8
US-10-243-552-540
; Sequence 540, Application US/10243552
; Publication No. US20030224379A1
; GENERAL INFORMATION:
; APPLICANT: Tang, Y. Tom
; APPLICANT: Yang, Yonghong
; APPLICANT: Wang, Zhiwei
; APPLICANT: Weng, Gezhi
; APPLICANT: Ma, Xunqing
; TITLE OF INVENTION: Novel Nucleic Acids and
; TITLE OF INVENTION: Polypeptides
; FILE REFERENCE: 807A
; CURRENT APPLICATION NUMBER: US/10/243,552
; PRIOR FILING DATE: 2002-09-12
; PRIOR APPLICATION NUMBER: US 60/322,511
; PRIOR FILING DATE: 2001-09-13
; PRIOR APPLICATION NUMBER: PCT/US00/35017
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: US 09/488,725
; PRIOR FILING DATE: 2000-01-21
; PRIOR APPLICATION NUMBER: US 09/552,317
; PRIOR FILING DATE: 2000-04-25
; PRIOR APPLICATION NUMBER: PCT/US01/02623
; PRIOR FILING DATE: 2001-01-25
; PRIOR APPLICATION NUMBER: US 09/491,404
; PRIOR FILING DATE: 2000-01-25
; PRIOR APPLICATION NUMBER: PCT/US01/03800
; PRIOR FILING DATE: 2001-02-05
; PRIOR APPLICATION NUMBER: US 09/496,914
; PRIOR FILING DATE: 2000-02-03
; PRIOR APPLICATION NUMBER: US 09/560,875
; PRIOR FILING DATE: 2000-04-27
; PRIOR APPLICATION NUMBER: PCT/US01/04927
; PRIOR FILING DATE: 2001-02-26
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 998
; SOFTWARE: pt_FL_genes Version 5.0
; SEQ ID NO 540
; LENGTH: 146
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-243-552-540

Query Match          22.0%; Score 184.5; DB 12; Length 146;
Best Local Similarity 100.0%; Pred. No. 0.014;

; LENGTH: 48
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; OTHER INFORMATION: MAP TO ALO35086.12
; OTHER INFORMATION: EXPRESSED IN PLACENTA, SIGNAL = 0.98
; OTHER INFORMATION: EXPRESSED IN LUNG, SIGNAL = 1.1
; OTHER INFORMATION: EXPRESSED IN HELA, SIGNAL = 1.5
; OTHER INFORMATION: EXPRESSED IN ADULT LIVER, SIGNAL = 1.1
; OTHER INFORMATION: EXPRESSED IN BT474, SIGNAL = 2
; OTHER INFORMATION: EXPRESSED IN BONE MARROW, SIGNAL = 1.7
; OTHER INFORMATION: EXPRESSED IN HBL100, SIGNAL = 1.2
; OTHER INFORMATION: EXPRESSED IN FETAL LIVER, SIGNAL = 1.1
; OTHER INFORMATION: EXPRESSED IN BRAIN, SIGNAL = 1.7
; OTHER INFORMATION: EXPRESSED IN HEART, SIGNAL = 1.4
; OTHER INFORMATION: EST HUMAN HIT: AA668498.1, EVALUE 7.00e-16
; OTHER INFORMATION: SWISSPROT HIT: P10267, EVALUE 6.00e-19
US-09-864-761-33768

Query Match          26.2%; Score 220; DB 9; Length 48;
Best Local Similarity 93.3%; Pred. No. 2.3e-17;
Matches 40; Conservative 1; Mismatches 7; Indels 0; Gaps 0;

QY 47 YHYPICLGRAPCLMPAVQNLVVEPTVSPNSRFTYHVMGMSLRPQ 94
Db 1 YCVPPICLGRAPCLMPETTONLWLVETVTSATSGFTYHRVSGMSLRPQ 48

RESULT 8
US-10-243-552-540
; Sequence 540, Application US/10243552
; Publication No. US20030224379A1
; GENERAL INFORMATION:
; APPLICANT: Tang, Y. Tom
; APPLICANT: Yang, Yonghong
; APPLICANT: Wang, Zhiwei
; APPLICANT: Weng, Gezhi
; APPLICANT: Ma, Xunqing
; TITLE OF INVENTION: Novel Nucleic Acids and
; TITLE OF INVENTION: Polypeptides
; FILE REFERENCE: 807A
; CURRENT APPLICATION NUMBER: US/10/243,552
; PRIOR FILING DATE: 2002-09-12
; PRIOR APPLICATION NUMBER: US 60/322,511
; PRIOR FILING DATE: 2001-09-13
; PRIOR APPLICATION NUMBER: PCT/US00/35017
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: US 09/488,725
; PRIOR FILING DATE: 2000-01-21
; PRIOR APPLICATION NUMBER: US 09/552,317
; PRIOR FILING DATE: 2000-04-25
; PRIOR APPLICATION NUMBER: PCT/US01/02623
; PRIOR FILING DATE: 2001-01-25
; PRIOR APPLICATION NUMBER: US 09/491,404
; PRIOR FILING DATE: 2000-01-25
; PRIOR APPLICATION NUMBER: PCT/US01/03800
; PRIOR FILING DATE: 2001-02-05
; PRIOR APPLICATION NUMBER: US 09/496,914
; PRIOR FILING DATE: 2000-02-03
; PRIOR APPLICATION NUMBER: US 09/560,875
; PRIOR FILING DATE: 2000-04-27
; PRIOR APPLICATION NUMBER: PCT/US01/04927
; PRIOR FILING DATE: 2001-02-26
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 998
; SOFTWARE: pt_FL_genes Version 5.0
; SEQ ID NO 540
; LENGTH: 146
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-243-552-540

Query Match          22.0%; Score 184.5; DB 12; Length 146;
Best Local Similarity 100.0%; Pred. No. 0.014;

Best Local Similarity 53.1%; Pred. No. 1.1e-12;
Matches 34; Conservative 11; Mismatches 18; Indels 1; Gaps 1;

QY 1 MVTPTVMDNPIEVYVNDSDVWVPGTDDRCAPKPEEBGMMINISIGYHYPPICLG-RAPG 59
Db 59 LIRAMTWMDAPIEVYVNDSDVWVPGTDDRCAPKPEEBGMMINISIGYHYPPICLG-RAPG 59
QY 60 CLMP 63
Db 119 IPIP 122

RESULT 9
US-10-236-091-2
; Sequence 2, Application US/10236091
; Publication No. US20030162263A1
; GENERAL INFORMATION:
; APPLICANT: Dupuis, Marc
; TITLE OF INVENTION: Peptides Derived from the Superantigen (SAG) ENV
; TITLE OF INVENTION: Protein of HERV-K18 and Their Use in Obtaining
; TITLE OF INVENTION: SAG-Inhibitory Antibodies and in Vaccination Against
; FILE REFERENCE: 23135-506
; CURRENT APPLICATION NUMBER: US/10/236,091
; PRIOR FILING DATE: 2002-09-06
; PRIOR APPLICATION NUMBER: 60/317,703
; PRIOR FILING DATE: 2001-09-06
; PRIOR APPLICATION NUMBER: 60/317,704
; PRIOR FILING DATE: 2001-09-06
; NUMBER OF SEQ ID NOS: 5
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Human endogenous retrovirus
US-10-236-091-2

Query Match          10.1%; Score 85; DB 14; Length 16;
Best Local Similarity 100.0%; Pred. No. 0.012;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 116 CPKEIPKSGKNTEVLV 131
Db 1 CPKEIPKSGKNTEVLV 16

RESULT 10
US-10-236-091-3
; Sequence 3, Application US/10236091
; Publication No. US20030162263A1
; GENERAL INFORMATION:
; APPLICANT: Dupuis, Marc
; TITLE OF INVENTION: Peptides Derived from the Superantigen (SAG) ENV
; TITLE OF INVENTION: Protein of HERV-K18 and their Use in Obtaining
; TITLE OF INVENTION: SAG-Inhibitory Antibodies and in Vaccination Against
; FILE REFERENCE: 23135-506
; CURRENT APPLICATION NUMBER: US/10/236,091
; PRIOR FILING DATE: 2002-09-06
; PRIOR APPLICATION NUMBER: 60/317,703
; PRIOR FILING DATE: 2001-09-06
; PRIOR APPLICATION NUMBER: 60/317,704
; PRIOR FILING DATE: 2001-09-06
; NUMBER OF SEQ ID NOS: 5
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 3
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Human endogenous retrovirus
US-10-236-091-3

Query Match          10.0%; Score 84; DB 14; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.014;
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Db      61 RFTHEKRAVS-----DFSL-----LCPTKPSGSDDCSVKLNINEKNS 101
QY      140 VVILQN 145
Db      102 LATIRN 107
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RESULT 15

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US-10-424-599-271886
; Sequence 271886, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa Thomas J
; APPLICANT: Kovalic David K
; APPLICANT: Zhou Yihua
; APPLICANT: Cao Yongwei
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53223)B
; CURRENT APPLICATION NUMBER: US/10/424,599
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 271886
; LENGTH: 475
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT3847_87531C.1.pap
US-10-424-599-271886
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Query Match      8.9%; Score 75; DB 12; Length 475;
Best Local Similarity 17.9%; Pred. No. 14;
Matches 35; Conservative 28; Mismatches 51; Indels 82; Gaps 7;

QY      4 PVTW-MDNPIEV---YVNDSVWVPGP-----TDDRCPAKPEEKGMIN 42
Db      173 PITFNDKVDKDEATIRLVGSFEPHGFKTLRRIVGGGLIRAVSESWTFSSDDDFGLLE 232

QY      43 ISI-----GYHYPPICLGRAPCLMPAVQNLVVEVPTVSPNSRFTYHVS 87
Db      233 DDIEVSFPYYLWIKYALMAYHYDP-----QVSLPELSSISLYTPKLVE 275

QY      88 GMSLRPRVN-----YL-----QDFSQSRSLKRPKGTCPK 118
Db      276 VYKERPKWATEFFKIHNTPLYHOLPCSWGAVFFPKHREFYVYNNRFTEDAKSNPV 335

QY      119 EIPKSKNTEVLWEE 134
Db      336 QIPKSRINGWQASWKK 351
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Search completed: May 5, 2004, 16:06:42
Job time : 33.0233 secs

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: May 5, 2004, 15:48:56 ; Search time 12.75 Seconds
(without alignments)
619.512 Million cell updates/sec

Title: US-09-490-700-36

Perfect score: 840

Sequence: 1 MVTPTWMDNPFEVYVDSV.....ECVANSVILQNGRTIID 153

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Issued Patents AA:*

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2: /cgn2_6/prodata/2/aa/5B-COMB.pep:*

3: /cgn2_6/prodata/2/aa/6A-COMB.pep:*

4: /cgn2_6/prodata/2/aa/6B-COMB.pep:*

5: /cgn2_6/prodata/2/aa/PCITUS-COMB.pep:*

6: /cgn2_6/prodata/2/aa/backfiles1.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	71.5	8.5	1003	1	US-07-991-867B-6
2	71.5	8.5	1003	1	US-08-107-755A-6
3	71.5	8.5	1003	2	US-08-544-332-6
4	71.5	8.5	1003	4	US-09-370-861A-6
5	71	8.5	1025	4	US-09-668-113A-8
6	70.5	8.4	1064	4	US-09-252-991A-17508
7	70	8.3	151	4	US-09-690-454-150
8	69	8.2	468	4	US-09-149-476-387
9	69	8.2	549	4	US-09-673-395A-208
10	69	8.2	549	4	US-09-673-395A-208
11	68	8.1	142	4	US-09-198-119C-45
12	68	8.1	268	4	US-09-252-991A-30350
13	67.5	8.0	473	3	US-08-857-076-99
14	67.5	8.0	484	3	US-09-080-044-7
15	67.5	8.0	484	4	US-09-531-857A-7
16	67.5	8.0	533	1	US-08-220-151-15
17	67.5	8.0	533	1	US-08-413-118-15
18	67.5	8.0	533	3	US-08-473-446-15
19	67	8.0	372	4	US-09-252-991A-26719
20	66.5	7.9	480	3	US-09-078-173A-25
21	66.5	7.9	480	3	US-09-537-357-32
22	66.5	7.9	602	4	US-09-252-991A-30458
23	66.5	7.9	807	1	US-07-862-021B-10
24	66.5	7.9	807	1	US-08-313-288B-10
25	66.5	7.9	807	4	US-09-132-769-5
26	66.5	7.9	807	5	PCT-US93-03164-10
27	66.5	7.9	2409	6	5180808-2

28 66 7.9 985 4 US-09-543-681A-6501 Sequence 6501, Ap
29 65.5 7.8 410 3 US-09-258-754-451 Sequence 451, App
30 65 7.7 320 4 US-09-489-039A-14175 Sequence 14175, A
31 65 7.7 338 1 US-08-218-686-2 Sequence 2, Appli
32 65 7.7 338 3 US-08-460-242-2 Sequence 2, Appli
33 65 7.7 362 4 US-03-252-991A-20356 Sequence 20356, A
34 65 7.7 479 4 US-09-489-039A-11164 Sequence 11164, A
35 65 7.7 526 4 US-09-630-983A-7 Sequence 7, Appli
36 65 7.7 675 4 US-10-162-012-27 Sequence 27, Appli
37 64.5 7.7 802 1 US-07-862-021B-12 Sequence 12, Appli
38 64.5 7.7 802 5 PCT-US93-03164-12 Sequence 12, Appli
39 64.5 7.7 802 3 US-08-688-388-40 Sequence 40, Appli
40 64 7.6 509 3 US-08-688-388-40 Sequence 40, Appli
41 64 7.6 708 4 US-09-107-532A-6047 Sequence 6047, Ap
42 64 7.6 759 4 US-09-489-039A-7874 Sequence 7874, Ap
43 64 7.6 1420 2 US-08-540-804-14 Sequence 14, Appli
44 64 7.6 1420 2 US-08-218-265-14 Sequence 14, Appli
45 64 7.6 1420 3 US-08-521-872-14 Sequence 14, Appli

ALIGNMENTS

RESULT 1

US-07-991-867B-6
; Sequence 6, Application US/07991867B
; Patent No. 5476781
; GENERAL INFORMATION:
; APPLICANT: Moyer, Richard W.
; APPLICANT: Hall, Richard L.
; APPLICANT: Gruidl, Michael E.
; TITLE OF INVENTION: No. 5476781el Entomopoxvirus Expression System
; NUMBER OF SEQUENCES: 66
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: David R. Saliwanchik
; STREET: 2421 N.W. 41st Street, Suite A-1
; CITY: Gainesville
; STATE: FL
; COUNTRY: USA
; ZIP: 32606
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/991,867B
; FILING DATE: 12-DEC-1992
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: WO 92/14818
; FILING DATE: 12-FEB-1992
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/827,685
; FILING DATE: 30-JAN-1992
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/657,584
; FILING DATE: 19-FEB-1991
; ATTORNEY/AGENT INFORMATION:
; NAME: Saliwanchik, David R.
; REGISTRATION NUMBER: 31,794
; REFERENCE/DOCKET NUMBER: UF114.C3
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 904-375-8100
; TELEFAX: 904-372-5800
; INFORMATION FOR SEQ ID NO: 6:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1003 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-07-991-867B-6

Query Match 8.5%; Score 71.5; DB 1; Length 1003;
Best Local Similarity 25.0%; Pred. No. 20;
Matches 26; Conservative 12; Mismatches 37; Indels 29; Gaps 5;

QY 60 CLMPAVQ-----NWLEVEPTVSPNSRFTYHMSG-----MSLRPRVNYLQDFSYQSLKFR 110
Db 441 CLKPKVPKNLRLWGWLDCDT-----SRFKHMDGSDDLDDLVRLN----- 482

QY 111 PKGKTCPE-IPKGSKNTEVLVWEECVANSVVIQNNFEFTIID 153
Db 483 -RNDICLKQAIKQHYTNVILEYANTYPNCTLSLGNRRFNVD 525

RESULT 2
US-08-107-755A-6
; Sequence 6, Application US/08107755A
; Patent No. 5721352
; GENERAL INFORMATION:
; APPLICANT: Moyer, Richard W.
; APPLICANT: Hall, Richard L.
; APPLICANT: Gruidl, Michael E.
; TITLE OF INVENTION: No. 5721352el Entomopoxvirus Expression System
; NUMBER OF SEQUENCES: 40
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: David R. Saliwanchik
; STREET: 2421 N.W. 41st Street, Suite A-1
; CITY: Gainesville
; STATE: Florida
; COUNTRY: U.S.A.
; ZIP: 32606

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/107,755A
FILING DATE: 19-AUG-1993
CLASSIFICATION: 435

PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/827,658
FILING DATE: 30-JAN-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/657,584
FILING DATE: 19-FEB-1991

ATTORNEY/AGENT INFORMATION:
NAME: Saliwanchik, David R.
REGISTRATION NUMBER: 31,794
REFERENCE/DOCKET NUMBER: UF114.C2

TELEPHONE: (904) 375-8100
TELEFAX: (904) 372-5800
INFORMATION FOR SEQ ID NO: 6:

SEQUENCE CHARACTERISTICS:
LENGTH: 1003 amino acids
TYPE: amino acid
TOPOLOGY: linear

MOLECULE TYPE: protein
US-08-107-755A-6

Query Match 8.5%; Score 71.5; DB 1; Length 1003;
Best Local Similarity 25.0%; Pred. No. 20;
Matches 26; Conservative 12; Mismatches 37; Indels 29; Gaps 5;

QY 60 CLMPAVQ-----NWLEVEPTVSPNSRFTYHMSG-----MSLRPRVNYLQDFSYQSLKFR 110
Db 441 CLKPKVPKNLRLWGWLDCDT-----SRFKHMDGSDDLDDLVRLN----- 482

QY 111 PKGKTCPE-IPKGSKNTEVLVWEECVANSVVIQNNFEFTIID 153
Db 483 -RNDICLKQAIKQHYTNVILEYANTYPNCTLSLGNRRFNVD 525

RESULT 3
US-08-544-332-6
; Sequence 6, Application US/08544332
; Patent No. 5935777
; GENERAL INFORMATION:
; APPLICANT: Moyer, Richard W.
; APPLICANT: Hall, Richard L.
; APPLICANT: Gruidl, Michael E.
; TITLE OF INVENTION: No. 5935777el Entomopoxvirus Expression System
; NUMBER OF SEQUENCES: 77
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Gerard H. Bencen
; STREET: 2421 N.W. 41st Street, Suite A-1
; CITY: Gainesville
; STATE: FL
; COUNTRY: USA
; ZIP: 32606

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/544,332
FILING DATE:

CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/991,867
FILING DATE: 07-DEC-1992

PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/107,755
FILING DATE: 19-AUG-1993

PRIOR APPLICATION DATA:
APPLICATION NUMBER: WO 92/14818
FILING DATE: 12-FEB-1992

PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/827,685
FILING DATE: 30-JAN-1992

PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/657,584
FILING DATE: 19-FEB-1991

ATTORNEY/AGENT INFORMATION:
NAME: Bencen, Gerard H.
REGISTRATION NUMBER: 35,746
REFERENCE/DOCKET NUMBER: UF114.C4

TELEPHONE: 904-375-8100
TELEFAX: 904-372-5800
INFORMATION FOR SEQ ID NO: 6:

SEQUENCE CHARACTERISTICS:
LENGTH: 1003 amino acids
TYPE: amino acid
TOPOLOGY: linear

MOLECULE TYPE: protein
US-08-544-332-6

Query Match 8.5%; Score 71.5; DB 2; Length 1003;
Best Local Similarity 25.0%; Pred. No. 20;
Matches 26; Conservative 12; Mismatches 37; Indels 29; Gaps 5;

QY 60 CLMPAVQ-----NWLEVEPTVSPNSRFTYHMSG-----MSLRPRVNYLQDFSYQSLKFR 110
Db 441 CLKPKVPKNLRLWGWLDCDT-----SRFKHMDGSDDLDDLVRLN----- 482

QY 111 PKGKTCPE-IPKGSKNTEVLVWEECVANSVVIQNNFEFTIID 153
Db 483 -RNDICLKQAIKQHYTNVILEYANTYPNCTLSLGNRRFNVD 525

RESULT 4
US-09-370-861A-6
; Sequence 6, Application US/09370861A
; Patent No. 6410221

EARLIER FILING DATE: 1997-08-22
EARLIER APPLICATION NUMBER: 60/056,879
EARLIER FILING DATE: 1997-08-22
EARLIER APPLICATION NUMBER: 60/056,880
EARLIER FILING DATE: 1997-08-22
EARLIER APPLICATION NUMBER: 60/056,894
EARLIER FILING DATE: 1997-08-22
EARLIER APPLICATION NUMBER: 60/056,894
EARLIER FILING DATE: 1997-08-22
EARLIER APPLICATION NUMBER: 60/056,911
EARLIER FILING DATE: 1997-08-22
EARLIER APPLICATION NUMBER: 60/056,911
EARLIER FILING DATE: 1997-08-22
EARLIER APPLICATION NUMBER: 60/056,636
EARLIER FILING DATE: 1997-08-22
EARLIER APPLICATION NUMBER: 60/056,874
EARLIER FILING DATE: 1997-08-22
EARLIER APPLICATION NUMBER: 60/056,910
EARLIER FILING DATE: 1997-08-22
EARLIER APPLICATION NUMBER: 60/056,864
EARLIER FILING DATE: 1997-08-22
EARLIER APPLICATION NUMBER: 60/056,631
EARLIER FILING DATE: 1997-08-22
EARLIER APPLICATION NUMBER: 60/056,845
EARLIER FILING DATE: 1997-08-22
EARLIER APPLICATION NUMBER: 60/056,892
EARLIER FILING DATE: 1997-08-22
EARLIER APPLICATION NUMBER: 60/047,761
EARLIER FILING DATE: 1997-08-22
EARLIER APPLICATION NUMBER: 60/047,595
EARLIER FILING DATE: 1997-05-23
EARLIER APPLICATION NUMBER: 60/047,599
EARLIER FILING DATE: 1997-05-23
EARLIER APPLICATION NUMBER: 60/047,590
EARLIER FILING DATE: 1997-05-23
EARLIER APPLICATION NUMBER: 60/047,594
EARLIER FILING DATE: 1997-05-23
EARLIER APPLICATION NUMBER: 60/047,589
EARLIER FILING DATE: 1997-05-23
EARLIER APPLICATION NUMBER: 60/047,593
EARLIER FILING DATE: 1997-05-23
EARLIER APPLICATION NUMBER: 60/047,614
EARLIER FILING DATE: 1997-05-23
EARLIER APPLICATION NUMBER: 60/043,578
EARLIER FILING DATE: 1997-04-11
EARLIER APPLICATION NUMBER: 60/043,576
EARLIER FILING DATE: 1997-04-11
EARLIER APPLICATION NUMBER: 60/047,501
EARLIER FILING DATE: 1997-05-23
EARLIER APPLICATION NUMBER: 60/043,670
EARLIER FILING DATE: 1997-04-11
EARLIER APPLICATION NUMBER: 60/056,632
EARLIER FILING DATE: 1997-08-22
EARLIER APPLICATION NUMBER: 60/056,664
EARLIER FILING DATE: 1997-08-22
EARLIER APPLICATION NUMBER: 60/056,876
EARLIER FILING DATE: 1997-08-22
EARLIER APPLICATION NUMBER: 60/056,881
EARLIER FILING DATE: 1997-08-22
EARLIER APPLICATION NUMBER: 60/056,909
EARLIER FILING DATE: 1997-08-22
EARLIER APPLICATION NUMBER: 60/056,875
EARLIER FILING DATE: 1997-08-22
EARLIER APPLICATION NUMBER: 60/056,862
EARLIER FILING DATE: 1997-08-22
EARLIER APPLICATION NUMBER: 60/056,887
EARLIER FILING DATE: 1997-08-22
EARLIER APPLICATION NUMBER: 60/056,908
EARLIER FILING DATE: 1997-08-22
EARLIER APPLICATION NUMBER: 60/048,964
EARLIER FILING DATE: 1997-06-06

EARLIER APPLICATION NUMBER: 60/057,650
EARLIER FILING DATE: 1997-09-05
EARLIER APPLICATION NUMBER: 60/056,884
EARLIER FILING DATE: 1997-08-22
EARLIER APPLICATION NUMBER: 60/057,669
EARLIER FILING DATE: 1997-09-05
EARLIER APPLICATION NUMBER: 60/049,610
EARLIER FILING DATE: 1997-06-13
EARLIER APPLICATION NUMBER: 60/061,060
EARLIER FILING DATE: 1997-10-02

Query Match 8.2%; Score 69; DB 4; Length 468;

Best Local Similarity 20.1%; Pred. No. 14;

Matches 33; Conservative 25; Mismatches 70; Indels 36; Gaps 4;

Qy 2 VTPVTWMDNPIEVYNDVSVVWVFGPTDDRC-----PAKPEEGMNNISIGYHYPP 51

Db 141 VRPLATLSVADLYNGSSIVSSIEFDRCDDYFAIAGVTKIKVYEYDVIQDAVDIHY- 199

Qy 52 ICLGRAPGCLMPAVQNLVVEVTVSPNSRFTVH--MVSGMSLRPRVNYLQDFSYORSLE 109

Db 200 -----ENEMTCNSKISCISWSSYHKLLASSDYEGTIVLWDGFTGORSKY 245

Qy 110 RPKGKTC-----PKEIPKSKNTEVLVWEECVANSVILQ 144

Db 246 QEHEKRCWSVDFNLMDPKLLASGDDAKVKLWSTNLDNSVASIE 289

RESULT 9

US-09-673-395A-208

; Sequence 208, Application US/09673395A

; Patent No. 6620923

; GENERAL INFORMATION:

; APPLICANT: SPECHT, THOMAS

; APPLICANT: HINZMANN, BERNI

; APPLICANT: SCHMITT, ARMIN

; APPLICANT: PILARSKY, CHRISTIAN

; APPLICANT: DAHL, EDGAR

; APPLICANT: ROSENTHAL, ANDRE

; TITLE OF INVENTION: HUMAN NUCLEIC ACID SEQUENCES FROM UTERUS TUMOR TISSUE

; FILE REFERENCE: ALBRE-12

; CURRENT APPLICATION NUMBER: US/09/673,395A

; NUMBER OF SEQ ID NOS: 637

; SOFTWARE: Patent Ver. 2.1

; SEQ ID NO 208

; LENGTH: 549

; TYPE: PRT

; ORGANISM: Homo sapiens

US-09-673-395A-208

Query Match 8.2%; Score 69; DB 4; Length 549;

Best Local Similarity 20.1%; Pred. No. 17;

Matches 33; Conservative 25; Mismatches 70; Indels 36; Gaps 4;

Qy 2 VTPVTWMDNPIEVYNDVSVVWVFGPTDDRC-----PAKPEEGMNNISIGYHYPP 51

Db 223 VRPLATLSVADLYNGSSIVSSIEFDRCDDYFAIAGVTKIKVYEYDVIQDAVDIHY- 281

Qy 52 ICLGRAPGCLMPAVQNLVVEVTVSPNSRFTVH--MVSGMSLRPRVNYLQDFSYORSLE 109

Db 282 -----ENEMTCNSKISCISWSSYHKLLASSDYEGTIVLWDGFTGORSKY 327

Qy 110 RPKGKTC-----PKEIPKSKNTEVLVWEECVANSVILQ 144

Db 328 QEHEKRCWSVDFNLMDPKLLASGDDAKVKLWSTNLDNSVASIE 371

RESULT 10

US-09-673-395A-564

; Sequence 564, Application US/09673395A

; Patent No. 6620923

; GENERAL INFORMATION:

APPLICANT: SPECHT, THOMAS
APPLICANT: HINZMANN, BERND
APPLICANT: SCHMITT, ARMIN
APPLICANT: PILARSKY, CHRISTIAN
APPLICANT: DAHL, EDGAR
APPLICANT: ROSENTHAL, ANDRE
TITLE OF INVENTION: HUMAN NUCLEIC ACID SEQUENCES FROM UTERUS TUMOR TISSUE
FILE REFERENCE: ALBRE-12
CURRENT APPLICATION NUMBER: US/09/673,395A
CURRENT FILING DATE: 2000-10-17
NUMBER OF SEQ ID NOS: 637
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 564
LENGTH: 549
TYPE: PRT
ORGANISM: Homo sapiens
US-09-673-395A-564

Query Match 8.2%; Score 69; DB 4; Length 549;
Best Local Similarity 20.1%; Pred. No. 17;
Matches 33; Conservative 25; Mismatches 70; Indels 36; Gaps 4;

Qy 2 VPTWMDNIEVYVNDVNVVPGTDDRC-----PAKPEEGMMINISIGYHYPP 51
Db 223 VRPLATLSYASDLNGSSIVSSIEFDFDCDFAIAGVTKIKVYEYDVIQDAVDIHP- 281
Qy 52 ICLGRAPCLMPAVQWNLVEVPTVSPNSRPTH--NVSGMSLPRVNYLQDSYQBSLXP 109
Db 282 -----ENEMTCSKISCSISWSYHKNLLASDYEGTVILMDGTGORSKYV 327
Qy 110 RPKGKTC-----PKPKGSKNTEVLWEECVANSVILQ 144
Db 328 QEHKRCWSVDFNLMDPKLLASGDDAKVKLWSTNLDNSVASIE 371

RESULT 11
US-09-198-119C-45
Sequence 45, Application US/09/98119C
Patent No. 6417428
GENERAL INFORMATION:
APPLICANT: Thomasow, Michael
APPLICANT: Stockinger, Eric
APPLICANT: Jaglo-Otosen, Kirsten
APPLICANT: Gilmour, Sarah
APPLICANT: Zarka, Daniel
APPLICANT: Jiang, Cai-Zhong
TITLE OF INVENTION: Plant Having Altered Environmental Stress Tolerance
FILE REFERENCE: 19117.713 Seg List
CURRENT APPLICATION NUMBER: US/09/198,119C
CURRENT FILING DATE: 1998-11-23
PRIOR APPLICATION NUMBER: US 08/706,270
PRIOR FILING DATE: 1998-09-04
PRIOR APPLICATION NUMBER: US 09/018,233
PRIOR FILING DATE: 1998-02-03
PRIOR APPLICATION NUMBER: US 09/017,816
PRIOR FILING DATE: 1998-02-03
PRIOR APPLICATION NUMBER: US 09/018,235
PRIOR FILING DATE: 1998-02-03
PRIOR APPLICATION NUMBER: US 09/017,575
PRIOR FILING DATE: 1998-02-03
PRIOR APPLICATION NUMBER: US 09/018,227
PRIOR FILING DATE: 1998-02-03
PRIOR APPLICATION NUMBER: US 09/018,234
NUMBER OF SEQ ID NOS: 95
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 45
LENGTH: 142
TYPE: PRT
ORGANISM: Brassica juncea
FEATURE:
OTHER INFORMATION: bJCBF4-PEP
US-09-198-119C-45

Query Match 8.1%; Score 68; DB 4; Length 142;
Best Local Similarity 29.1%; Pred. No. 3.3;
Matches 25; Conservative 10; Mismatches 29; Indels 22; Gaps 4;

Qy 68 WLVEVPTVSPNSRFTYHVMVSGMSLRPR--VNYLQDSYQBSLXFRPKGKTCPKKEIPKGS 124
Db 29 WLGTFTVEMAR--AHDVAALALGRSACLNFA-----AWCLRPESICPKKEIQKAA 81
Qy 125 KNTVELVWEECVANSVILQNNFET 150
Db 82 -----AFAAMAFQNEETAT 95

RESULT 12
US-09-252-991A-30350
Sequence 30350, Application US/09252991A
Patent No. 8551795
GENERAL INFORMATION:
APPLICANT: Marc J. Rubenfield et al.
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
FILE REFERENCE: 107196.136
CURRENT APPLICATION NUMBER: US/09/252,991A
CURRENT FILING DATE: 1999-02-18
PRIOR APPLICATION NUMBER: US 60/074,788
PRIOR FILING DATE: 1998-02-18
PRIOR APPLICATION NUMBER: US 60/094,190
PRIOR FILING DATE: 1998-07-27
NUMBER OF SEQ ID NOS: 33142
SEQ ID NO 30350
LENGTH: 268
TYPE: PRT
ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-30350

Query Match 8.1%; Score 68; DB 4; Length 268;
Best Local Similarity 21.5%; Pred. No. 8.2;
Matches 26; Conservative 14; Mismatches 37; Indels 44; Gaps 3;

Qy 11 PIEVYVNDVNVVPGTDDRCAPKPEEGMMINISIGYHYPPICLGRAPCLMPAVQWNLV 70
Db 89 PFQVFLS-----ADDSTPAKLEQEGEIV----- 111
Qy 71 EVPTVSPNSRFTYHVMVSGMSLRPRVNYLQ-DFSYQBSLXFRPKGKTCPKKEIPKGSKNTEV 129
Db 112 -----PGSRFTYAIGTLALWSFKAGYVDKGEVLKSGSFRHLSTIANPKTAPYGLAATQA 165
Qy 130 L 130
Db 166 M 166

RESULT 13
US-08-857-076-99
Sequence 99, Application US/08857076C
Patent No. 6225120
GENERAL INFORMATION:
APPLICANT: Ruvkun, Gary
APPLICANT: Kimura, Koutarou
APPLICANT: Patterson, Garth
APPLICANT: OGG, Scott
APPLICANT: Paradis, Suzanne
APPLICANT: Tissenbaum, Heidi
APPLICANT: Morris, Jason
APPLICANT: Kowek, Allison
TITLE OF INVENTION: THERAPEUTIC AND DIAGNOSTIC TOOLS FOR
FILE REFERENCE: 00786/351001
CURRENT APPLICATION NUMBER: US/08/857,076C
CURRENT FILING DATE: 1997-05-15
NUMBER OF SEQ ID NOS: 114
SOFTWARE: FastSeq for Windows Version 4.0

